



User Experience Research Portfolio

Maria Perez

About Myself

Longitudinal analysis & Psychometrics
to measure intangible assets

Ph.D. Political Science (USC)

M.S. Applied Econometrics (USC)

Ableton

The Trade Desk



Research Skills

Surveys & Measurement

- Survey design, analysis, and visualization
- Conjoint analysis (choice-based, adaptive)
- Questionnaire design & scale development
- Sampling strategies & weighting
- Response bias detection and mitigation

Interviews

- Structured and semi-structured interviews
- In-depth user interviews (remote & in-person)
- Stakeholder interviews (internal & external)
- Contextual inquiry

Experimental & Behavioral Data

- A/B testing and experimentation frameworks
- Hypothesis testing and statistical inference
- Funnel, cohort, and retention analysis
- Behavioral analytics interpretation (usage data)
- KPI and metric definition (e.g., NPS, CSAT, SUS)

Observational & Generative Methods

- Usability testing (moderated & unmoderated)
- Diary studies
- Field studies & ethnographic research
- Task analysis and workflow mapping
- Journey mapping & service blueprints
- Persona and archetype development
- Jobs-to-Be-Done (JTBD) analysis

Statistical Methods

- Descriptive and inferential statistics
- Regression analysis (linear, logistic)
- Factor analysis & dimensionality reduction
- Segmentation & clustering
- Power analysis and sample size estimation





1

Demand Side Platform (S&P 500)

2

Manage digital advertising campaigns across Connected TV (CTV), video, display, and audio

3

Partnered with Netflix and other major publishers

4

Moving Away from Legacy Platform (Solimar) to new (Kokai)

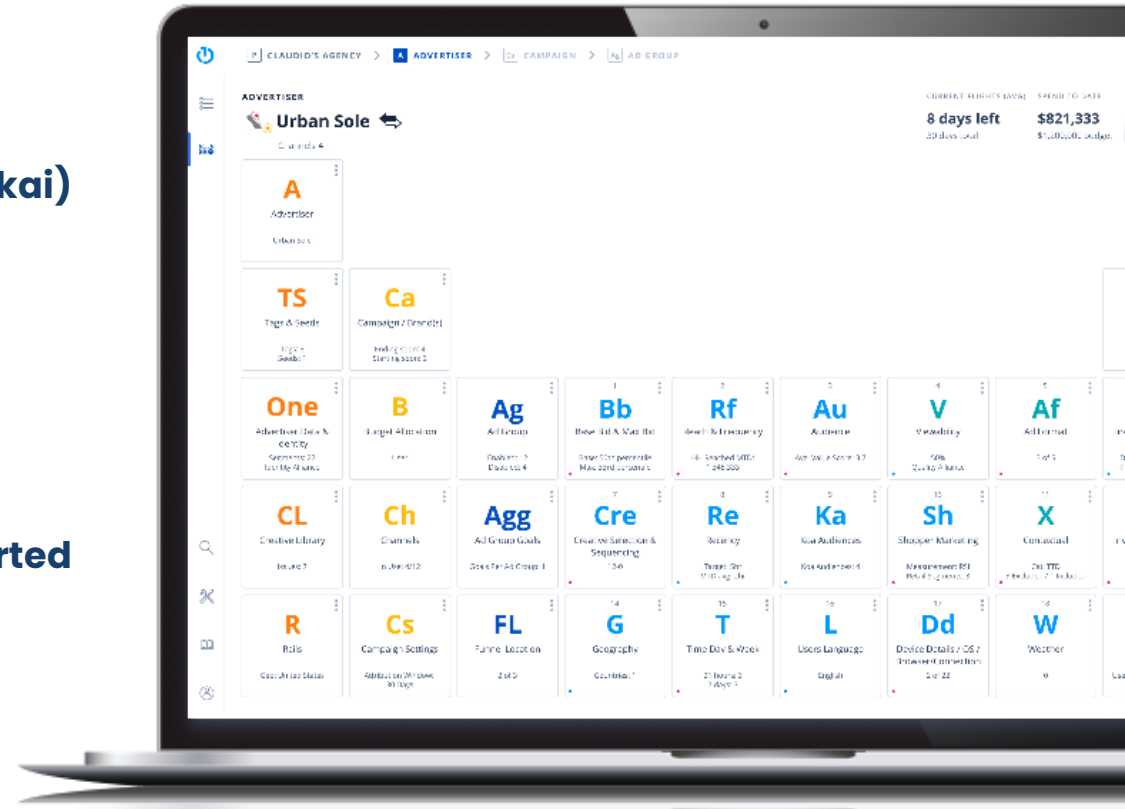
5

Consumer Products:



6

Agentic AI for Supported Workflows



BUILDING THE TTD AI ASSISTANT

How we solved workflow pain through quality AI

Add segments (or)

Add recommended high-relevance segments that are based on the seed you selected or searched

Search

cars

cats caribbean careers car rentals

Showing segments based on search: "cars"

Filter By Data Types Market Region More Filters

<input type="checkbox"/>	SEGMENT NAME	PROVIDER	COST
	200 segments	53	All
<input type="checkbox"/>	Automobiles Consumer Information > Automobiles	33Across	20% of med \$2.50 CPM
<input type="checkbox"/>	Luxury Vehicles Always-On Semasio > Auto > Luxury Vehicles	Semasio	25% of med EUR 2.00 C
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Phase 1

We need AI... For what?

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HOW IT STARTED

Leadership said we needed AI.

***No one had said AI for what.
No one knew where to start.***

I proposed approaching AI as any other product feature by figuring out “what problem is AI trying to solve?”.

Research Goals

1 Map where traders struggle

Identify which tasks are the most time-consuming, and which areas clients reach out the most about.

3 Quantify the opportunity

Produce a dataset tying question frequency, effort, and perceived opportunity to concrete numbers for leadership and product prioritization.

2 Identify critical AI support opportunities

Pinpoint the workflows where an AI assistant would save the most time and reduce the most friction.

4 Validate at scale

Have confidence in the insights are built on data, not just based on a handful of conversations.

Survey at Scale

Who

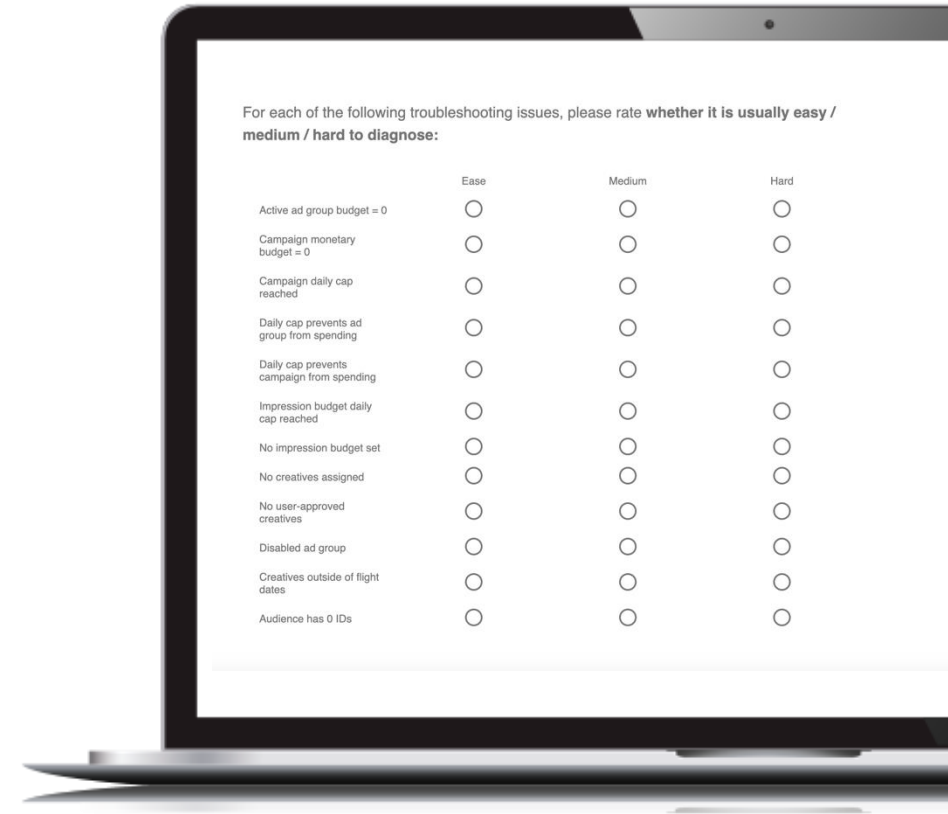
450 Active traders across segments — the people who live in the platform every day and feel the friction firsthand

What

Open ended and Structured Likert-scale instruments measuring workflow easiness, efficiency, client question frequency, effort, and opportunities for AI.

Output

Ease of use and effectiveness score per workflow, ranked critical workflows and client question frequency, quantified effort scores, and a mapped AI opportunity space.



360° Triangulation

Focus Group

Survey Design

Survey at Scale

Platform Analysis

AI Opportunity Map

Focus Group

Where it starts: focus group informs design before scale

- **Discover unknowns**
Surface pain points you didn't know to ask about
- **Calibrate language**
Ensure traders interpret questions the same way
- **Test comprehension**
Catch ambiguous or confusing questions before scaling
- **Shape dimensions**
Define the right constructs: frequency, effort, AI readiness

Platform Analysis

Parallel track: platform data confirms what traders reported

- **Clickstream data**
Revealed navigation patterns and high-frequency workflow areas
- **Session duration**
Showed which tasks take disproportionately long to complete
- **Re-entry patterns**
Flagged tasks traders had to return to repeatedly – a friction signal
- **Support escalations**
Identified highest-friction workflows where traders sought external help

THE APPROACH

Closing the Gap

STATED

What users say

Survey & focus group. Traders told us which workflows are the hardest and least efficient along with which clients' questions were hardest and most repetitive.

Strength: intent & context

Blind spot: people misremember

REVEALED

What users do

Platform clickstream, session duration, re-entry patterns, support escalations. The backend showed where traders actually spent time and got stuck.

Strength: actual behavior

Blind spot: no "why"

THE APPROACH

Key Findings & AI Opportunity Map

Data Triangulation

Highest session time: troubleshooting

Survey: #1 hardest question
Behavioral: longest platform sessions, most support escalations

Most re-entries: troubleshooting tasks

Survey: high frequency, 30+ min average
Behavioral: traders repeatedly visit report tiles before finding answer

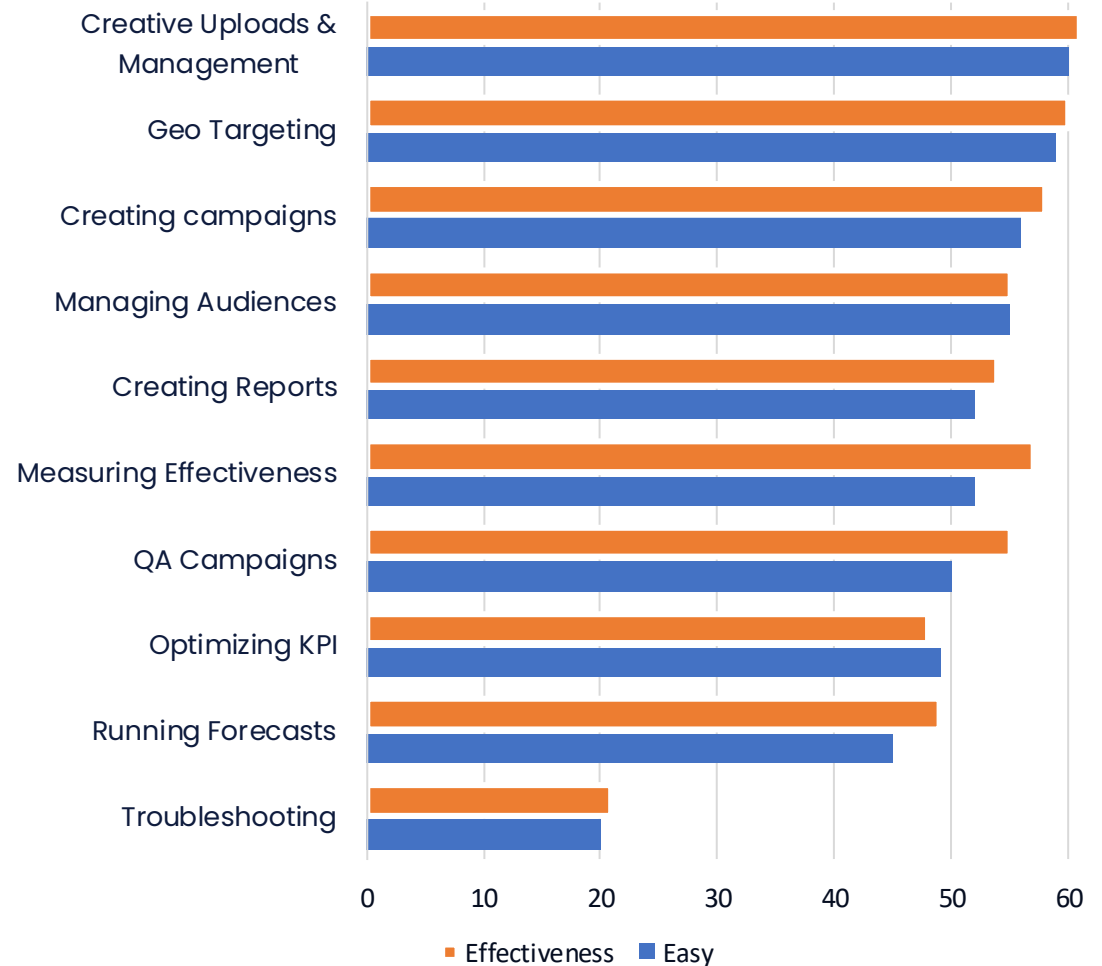
Noisiest clickstream: Kokai navigation

Survey: newer traders struggle most
Behavioral: random navigation paths, trial-and-error in UI

Escalation trigger: integrations & costs

Survey: repetitive question from clients
Behavioral: issues that end ends in SME escalation or Jira ticket

Workflow Ease & Efficiency Scores



Traders were drowning in repetitive tasks and complex workflows

80%

of traders spend 50+% of their time troubleshooting client's campaigns

75%

of traders spend 2+ hours per week answering repetitive client questions.

This is costing the company millions when their time could be optimized for more complex, added value tasks

THE BET

Three agents backed by in findings

Both signals converged on three jobs-to-be-done — that convergence became the product scope.



Navigation

STATED

Platform navigation and feature questions ranked 2nd in client inbound.

REVEALED

Heavy help-doc search sessions; repeated lookups for the same concepts.



Knowledge

STATED

Knowledge fragmented across Slack, Confluence, Jira, peer DMs.

REVEALED

Traders leave the platform to find answers. No single source works.



Troubleshooting

STATED

"Why isn't my campaign spending?" — the #1 question clients ask traders.

REVEALED

Traders spent most time in campaign / ad-group diagnostic surfaces.



Hotels



Recently viewed



Libraries



Tools



Reports



Advertiser settings



Advertiser
Hotels
5 live channels (Audio, Display, Out of Home, TV, Video)

Decision power
 48

Relevance
25x

Live flight total budget
\$5,547,926

Spend to date
\$1,927,251

Forecasted spend
\$4,569,142

34% of budget

82% of budget

Last updated: Apr 23, 2026 1:51 AM - UTC

Advertiser overview

Create campaign

Export/Import actions

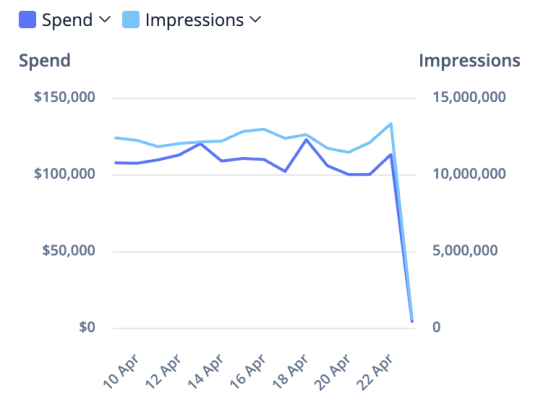
+ Add to favorites

⚠ Some deal workflows in Solimar are ending April 27th
Starting April 27th, EPA deal acceptance and PG campaign and ad group creation will no longer be available in Solimar. Use Kokai to review deal proposals and create these setups going forward.

Live campaign performance

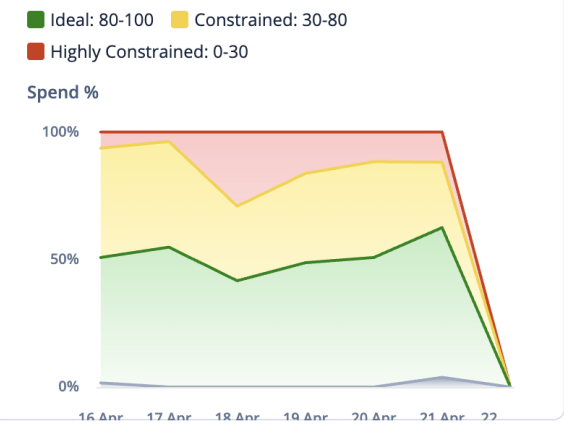
Spend & KPI

Last 14 days Total spend



Spend by Decision Power

Last 7 days



Campaign overview

All campaigns Campaign groups All ad groups

New Conversation



Ask a question

This is an alpha test. As you're working with this tool, keep in mind:

- It's only for internal alpha users and may make mistakes, so please double-check for accuracy.
- It's designed to help with key concepts, look at performance, and help you troubleshoot issues.
- Leave feedback about answers right here in the chat.

Ask a question or describe what you'd like to do



AI can make mistakes. Always verify the answers.

Knowledge Base | OpenAI | GPT-4o | Enterprise

Troubleshooting is incredibly complex



Troubleshooting

What is it

Troubleshooting is the process of diagnosing and resolving issues that prevent campaigns from spending, winning bids, or reaching their goals

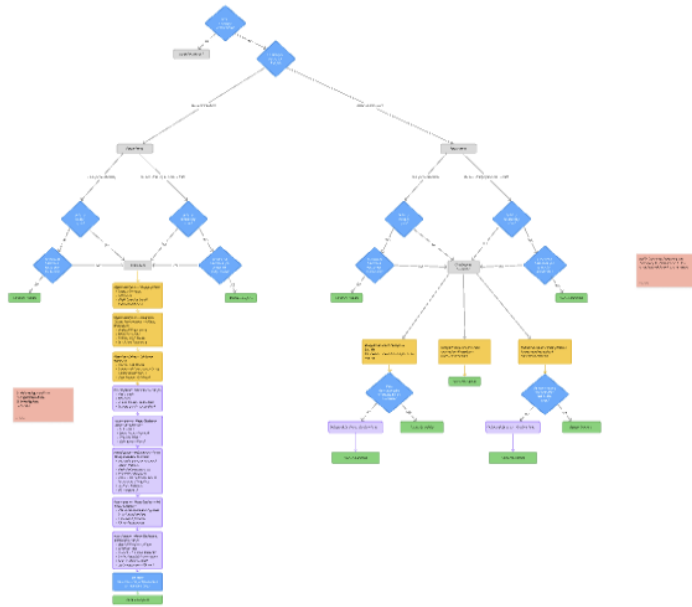
WHAT IT ENTAILS

- 1** Traders follow a mental decision tree to find and isolate the root cause.
- 2** Begin by verifying campaign/ad group status, spend trends, and how budgets are set up.
- 3** Inspect ad group bids, targeting, creative approval/status, format compatibility with supply inventory, audience reach, and deal eligibility
- 4** Compare settings with inventory and campaign requirements to find mismatches or blockers.
- 5** Surface the most critical spend-blocking reasons, then take direct action—adjust targeting, budget caps, creative formats, or deal parameters as needed.

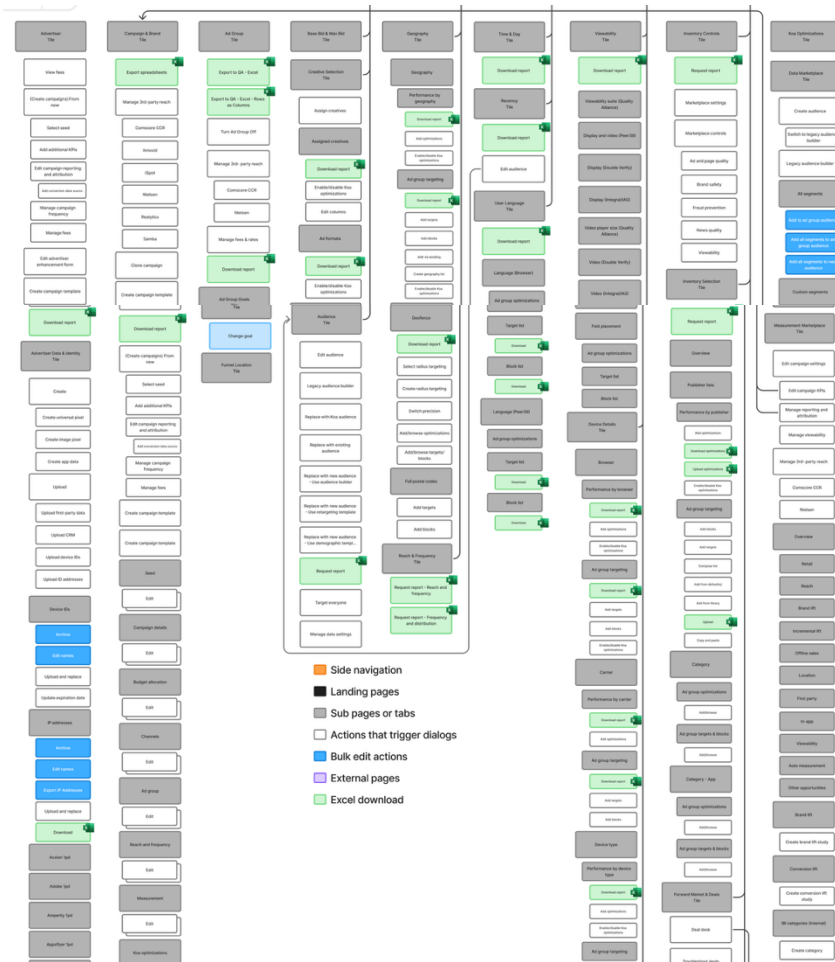
SOLUTIONS

Troubleshooting is the most complex

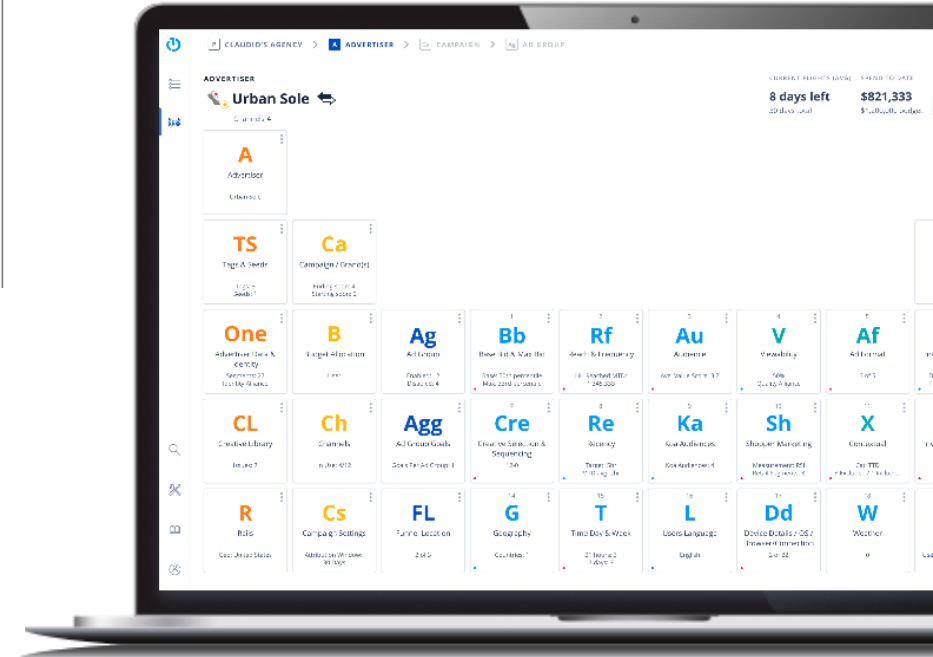
Decisions



Sitemap Navigation



Fragmented UI



PHASE 02

What is a good answer?

Add segments (or)

Add recommended high-relevance segments that are based on the seed you selected or searched

Search

cats caribbean careers car rentals

Showing segments based on search: "cars"

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**Before evaluating quality,
we had to define it.**

Quantifying “goodness”

Goal: Quantify user preferences for AI chatbot response and define an “ideal answer profile.”

Challenge

While “good responses” are often discussed qualitatively (e.g., helpful, concise, actionable) but:

- The agent needs parameters to model the output
- We have not measure of what dimensions contribute to a good answer
- How each dimension influences overall preference

Solution

We used a choice-based conjoint survey:

- Captures real-world trade-offs (not isolated ratings)
- Estimates relative importance of attributes
- Enables decomposition of “ideal response” into measurable components
- Quicker and cheaper than A/B testing
- Directly translates into AI evaluation

Conjoint Design: Attributes and Levels

500 participants evaluated 10 pairwise choice tasks. Each task showed two AI answers differing across 6 attributes with varying levels.

Actionable

- Level 1:** Generic guidance
- Level 2:** Specific next steps
- Level 3:** Redirecting

Preferred → **Specific next steps**

Personalized

- Level 1:** One-size-fits-all
- Level 2:** Tailored to advertiser

Preferred → **Tailored to context**

Concise

- Level 1:** Extensive (400+ words)
- Level 2:** Mid (150 to 400 words)
- Level 3:** Brief (≤ 150 words)

Preferred → **Brief (≤ 150 words)**

Sourced

- Level 1:** Expand citations
- Level 2:** Inline citations
- Level 3:** No citations

Preferred → **Inline citations**

Format

- Level 1:** Plain prose
- Level 2:** Headers

Preferred → **Headers + bullets**

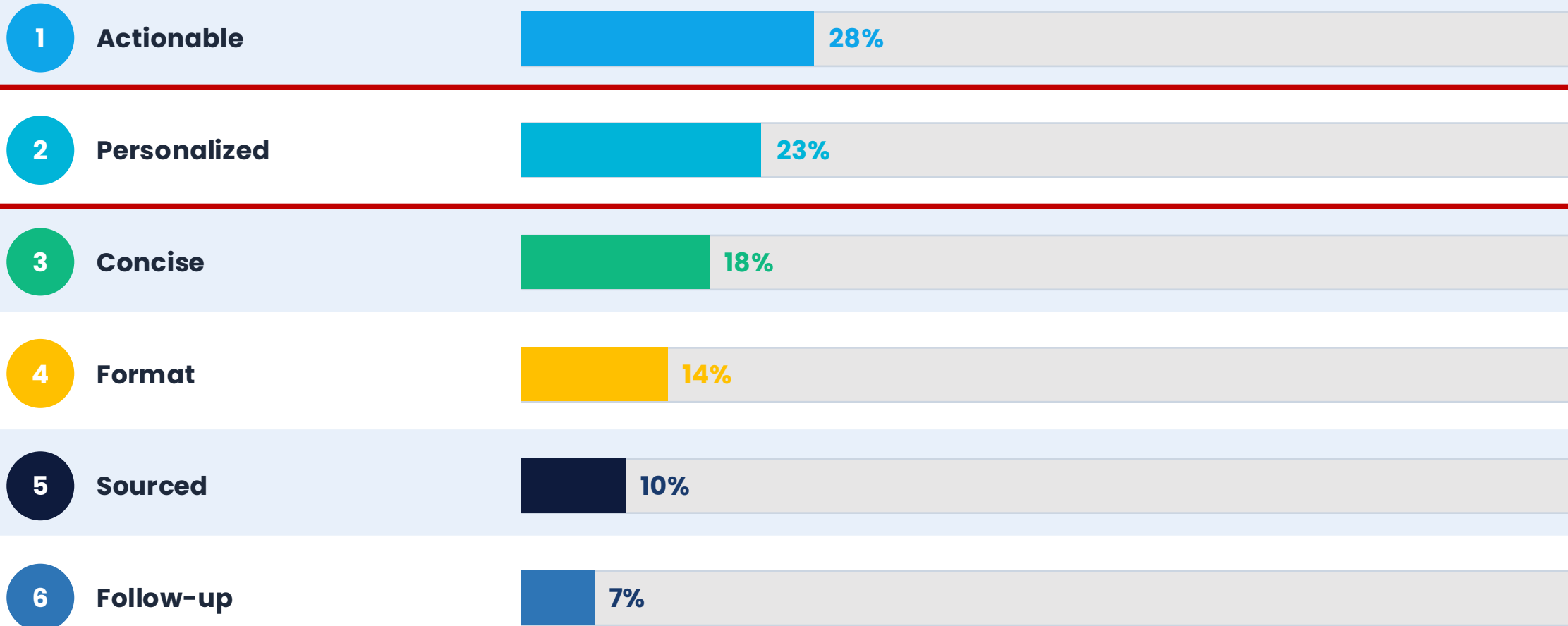
Follow-up

- Level 1:** No follow-up
- Level 2:** Follow-up suggestions

Preferred → **No follow-up**

Relative Attribute Importance

% of total utility explained by each attribute (N=500)



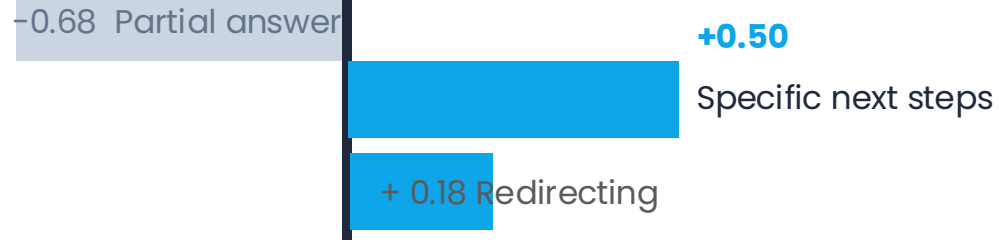
💡 Key Insight: Personalization and Actionability together account for 51% of total preference

Preferrable components

Part-Worth Utilities by Attribute Level

Higher utility = stronger preference | Utilities centered at 0 within each attribute

Actionable



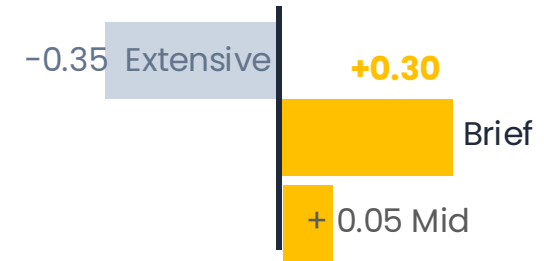
Follow-up



Personalized



Concise



Format



Sourced



Traits of a “good” answer

DOMINANT THEME

Resolution & Guidance

A good answer is not one that is “factually correct” but one that understand your needs and guides you to a solution.

Actionable

Tells the user what to do next and where to find it in-platform.

Format

Digestible and scannable information

Concise

Leads with the key point; all details without AI-ish verbosity.

Personalized

Understands the constrains of the user and their client

PHASE 02

Leveraging AI to help build out AI

AI Response Grader Beta

Evaluate agent responses against content design tenets and formatting rules.

T1. Set & Meet Expectations

T2. Data in Context

T3. Efficient but Generous

T4. Graceful Redirection

F1. Bolding

F2. Bullet Points

F3. Headers

● Pass ● Partially meets ● Fail

Single Response

Full Conversation

Batch Upload

CSV Batch

Review Queue

i How to use Single Response mode

Response 1

USER'S QUESTION

What did the user ask?

AGENT'S RESPONSE

Paste the agent's response...

+ Add Response

Grade All

PHASE 03

Refining & Systematically Evaluating

Add segments (or)

Add recommended high-relevance segments that are based on the seed you selected or searched

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cats caribbean careers car rentals

Showing segments based on search: "cars"

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PHASE 03 · EVALUATION

A universal framework for quality AI agents

AI Evaluation Flow

Two parallel feedback loops that continuously improve the model



Prompt-Level

Rate each question 1 – 5

Action Resolution Rate

Satisfaction with how AI resolved task

Written

Open ended feedback

Prompt – Level Rating

Is My Campaign Underpacing on The T... [edit] [refresh] [close]

why is the decision power low?

Low Decision Power means your setup is too constrained, so Kokai has fewer impression opportunities to choose from and less room to optimize toward your goals. It's commonly driven by tight targeting, limited supply, restrictive controls, lower bids, or frequency caps that make the consideration set too small.

- TTD says **80+** generally means you have enough inventory flexibility to be selective, while **below 80** means you may benefit from reaching relevant users in more places.
- Common fixes the documentation calls out: **expand inventory, loosen restrictive controls, increase base and max bids, loosen frequency caps, and modify other targeting rails.**
- To find the biggest blocker, use **scale constrained** in the programmatic table; hovering a setting with the **scale constrained** label shows how much more scale you'd unlock by removing that setting.
- Some campaigns, especially **lower-funnel retargeting**, can naturally have low Decision Power and may not benefit much from pushing the score higher.

Docs: [Decision Power](#) and [Scale / scale constrained](#)
If you want, I can check advertiser **cp222v0** and tell you which campaign or ad group setting is most likely constraining scale.

How helpful was this? 1 2 3 4 5

Ask a question or describe what you'd like to do [send]

AI can make mistakes. Always verify the answers.
Knowledge Portal | OpenTTD | Edge Academy

Action Resolution Rate

How satisfied are you with how your task was resolved?

1 2 3 4 5

Actionability

1 2 3 4 5

Response Completeness

1 2 3 4 5

Guidance

1 2 3 4 5

Clarity

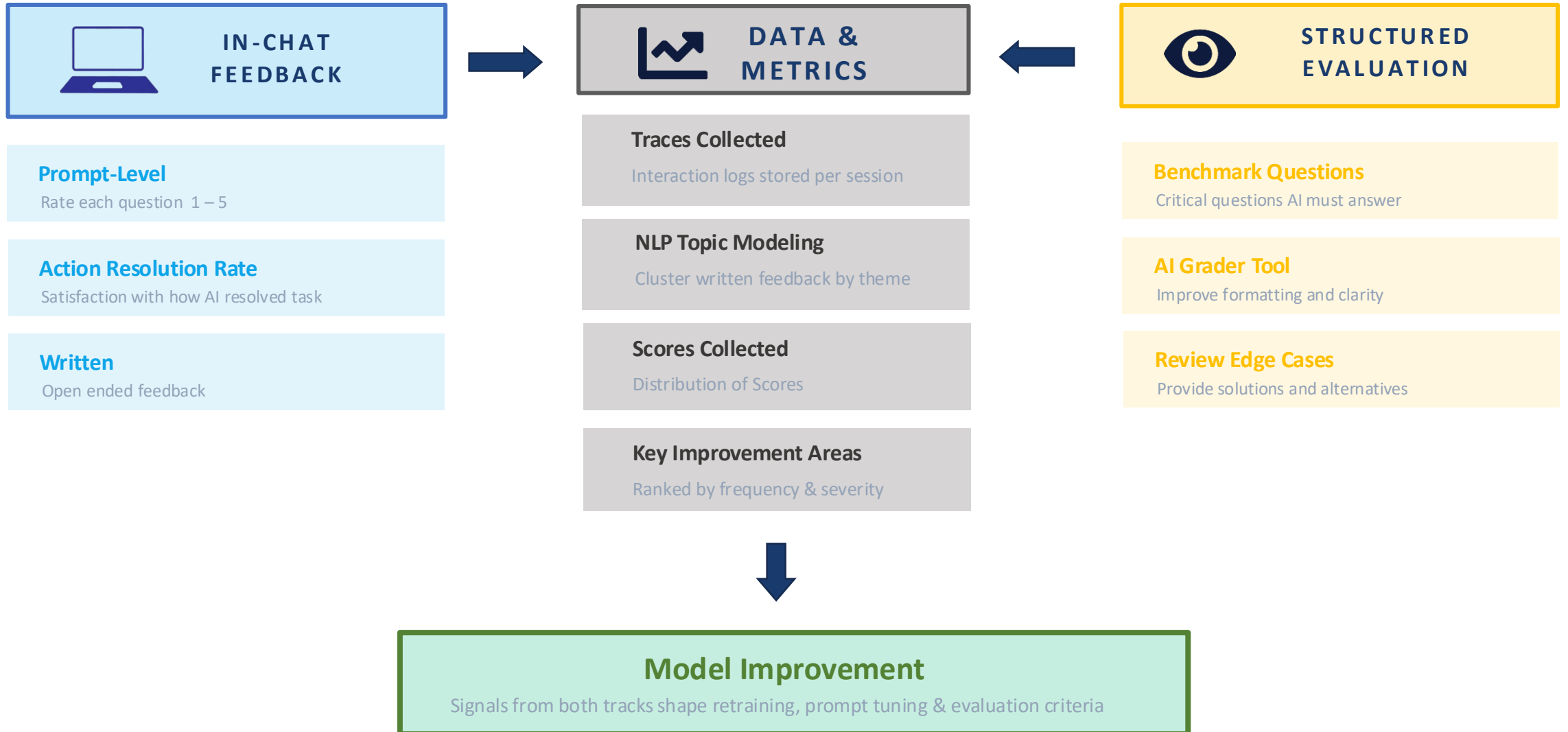
1 2 3 4 5

Share any additional thoughts or suggestions...

Submit

AI Evaluation Flow

Two parallel feedback loops that continuously improve the model



PHASE 03 · EVALUATION

Metrics Tracking Success

Agentic AI Program

Cross-functional initiative tracking for the Agentic AI program

Refresh Data

Release Notes | Leaderboard | **ARR Metrics** | Feedback Health

ARR Quality Metrics

Action Resolution Rate, Accuracy, and User Feedback from Databricks

ARR: 41% | Accuracy: 54%

Averages (Last 30 Days)

TOTAL SUBMISSIONS	AVG SATISFACTION	AVG ACCURACY	AVG COMPLETENESS	AVG USABILITY	AVG EXPLANATION
24	3	3.2	3.3	3	3.2

ARR by Agent (multi-agent attribution)

AGENT	TRACES	OVERALL	ACCURACY	COMPLETENESS	EXPLANATION	USABILITY	AVG DURATION
ai_assistant							

Score Distribution by Agent

AGENT	1★	2★	3★	4★	5★
ai_assistant					

Avg Latency (s)

Week	Avg Latency (s)
W08	2.5
W09	1.8
W10	2.2
W11	1.5
W12	2.5
W13	2.2
W14	1.8
W15	1.8
W16	1.7

Rating Distribution (1-5)

Rating	Count
1★	54
2★	65
3★	71
4★	83
5★	93

Last 15 days.

Top Questions by Volume

#	TOPIC	QUERIES	SHARE	SAMPLE
1	Action Request: Setup How-To and Workflow Guidance	671	1948.9%	<metad: <metad: campaig
2	Action Request: Entity Lists, IDs, and Exports	380	1103.7%	Get me 1 xjagv7s
3	Action Request: Performance, Spend, and Underpricing Reporting	367	1065.9%	<metad: https://d campaig https://d based o https://d campaig
4	Action Request: Optimization and Scaling Recommendations	278	807.4%	<metad: more co https://d ? geo? https://d

Feedback Health

Summary counters: last 15 days. Line charts: week-over-week, last 12 ISO weeks. Data from v_trace_items_search_v5.

88.5%	0.6%
% NEGATIVE (1-2)	% NEUTRAL (3)
10.8%	4.2%
% POSITIVE (4-5)	FEEDBACK COVERAGE
21.6s	1.90
AVG LATENCY	AVG SCORE (1-5)

Rating Mix Over Time

Rating	W14	W15	W16
% Negative (1-2)	10.8%	10.8%	10.8%
% Neutral (3)	0%	0%	4.2%
% Positive (4-5)	88.5%	88.5%	88.5%

PHASE 4

Impact measurement

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Time = \$

Is AI helping traders save time?

Is AI saving traders time? Time = \$

The trap to avoid AI adopters aren't random – they're more motivated, more tech-savvy, and likely faster at baseline. A naive “AI users vs non-AI users” comparison would overstate impact by attributing self-selection to the tool.

THE DESIGN

01

Within-user pre/post

Each trader is their own control. Time-on-task measured before vs after their AI adoption timestamp. Removes stable differences in skill and motivation.

02

Matched alpha testers to control group

Propensity score matching on role, tenure, baseline sessions, pre-period usage. Controls for observable differences between adopters and non-adopters.

03

Difference-in-Differences

Did adopters improve more than matched non-adopters over the same window? Isolates AI effect from company-wide productivity trends.

PHASE 4

Metrics Tracked

Time to Resolve

Minutes from login to resolution action (i.e. change in campaign setting)

Steps to Root Cause

Number of diagnostic checks before isolating the issue

Time to Campaign Spend

Days under pacing campaigns took to spend in full again after troubleshooting

PHASE 4

Within User Pre/Post

~900 users

-12min

On average less time to resolve per session (within-user, post vs. pre)

AI ADOPTION DAY 0



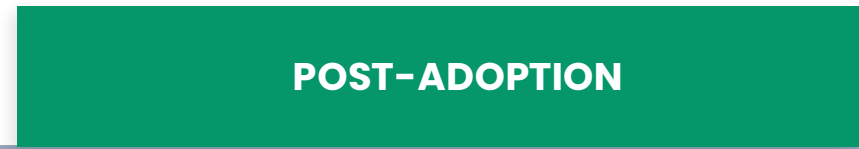
PRE-ADOPTION

Days -31 to -1



RAMP-UP
BUFFER

Days 0 to +7



POST-ADOPTION

Days +8 to +38



Symmetric Windows

Equal-length pre and post periods eliminate exposure bias



Buffer Period

Exclude 7-day ramp-up to avoid underestimating AI impact



Sufficient Activity

Minimum 15 tasks per window per user for stable estimates

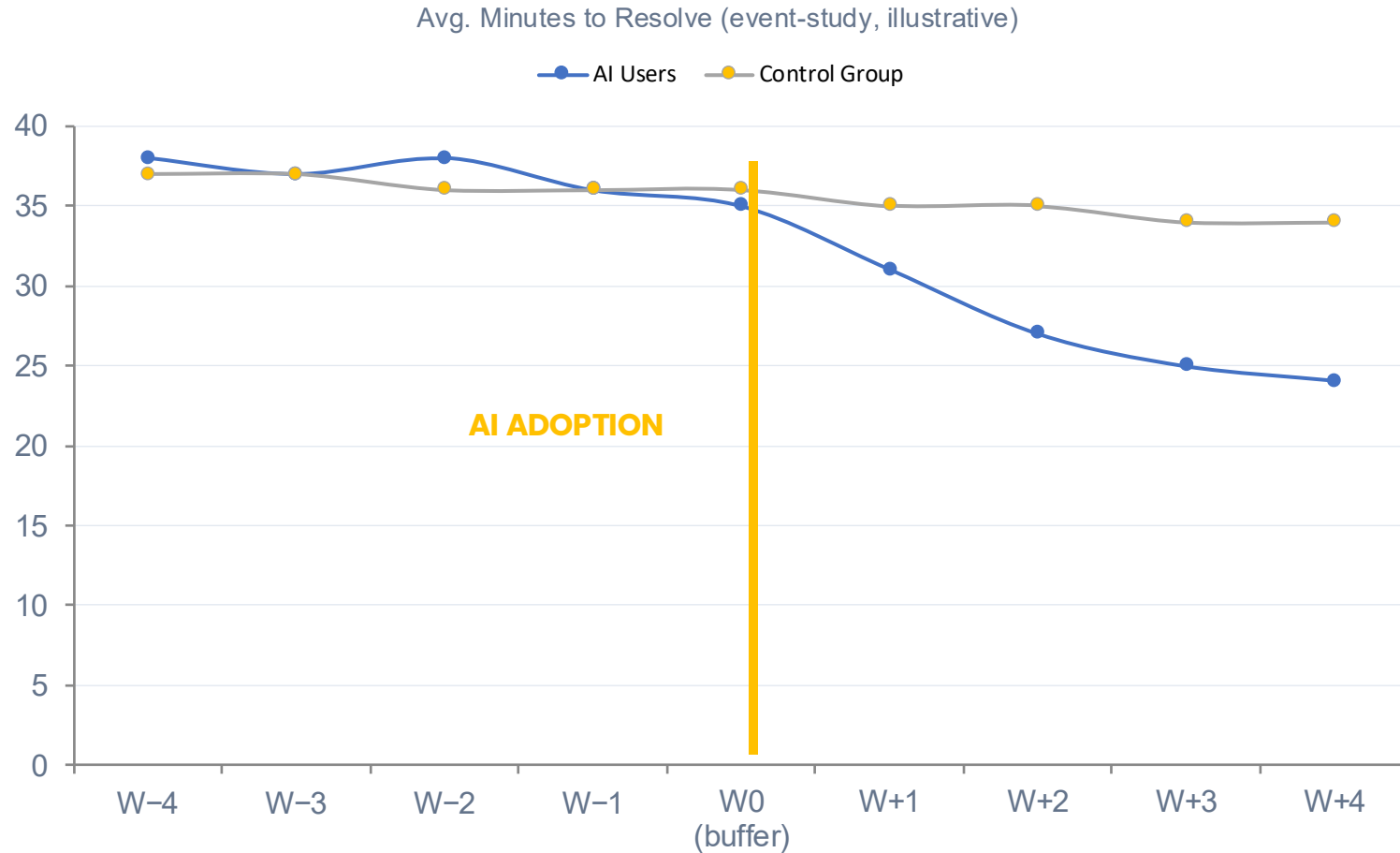


Full-Week Cycles

Windows span complete weeks to control for weekday patterns

PHASE 4

Trends Before & After AI Adoption



✓ No pre-trend

AI users and controls move in parallel before adoption – validates the parallel trends assumption

✓ Clear ramp-up

W0–W+1 shows partial improvement, consistent with a 7-day learning buffer design

✓ Sustained effect

Gains persist through W+4, ruling out a novelty-driven "Hawthorne" spike

Note: W0 represents the 7-day buffer window (excluded from primary analysis). The divergence between AI users and control widens consistently after W+1, confirming the AI tool is driving the effect.

Difference-in-Differences: Isolating the AI Effect

Within-user analysis alone can't rule out: everyone getting faster over time, easier tasks appearing later, or system-wide improvements.

	BEFORE	AFTER	CHANGE
AI Users	A	B	B - A
Control	C	D	D - C
DiD Estimate			(B-A) - (D-C)

DiD removes:

- General learning / skill gains over time
- Macroeconomic or market shifts
- Platform or product improvements
- Seasonal demand patterns

- Within-user says: *"You got faster."*
- DiD says *"You got faster than everyone else did — even accounting for the tide that lifted all boats."*

Combined approach: within-user pre/post (directional signal) + DiD with matched control (causal estimate)

PHASE 4

Findings: Time to Resolve & Steps to Root Cause

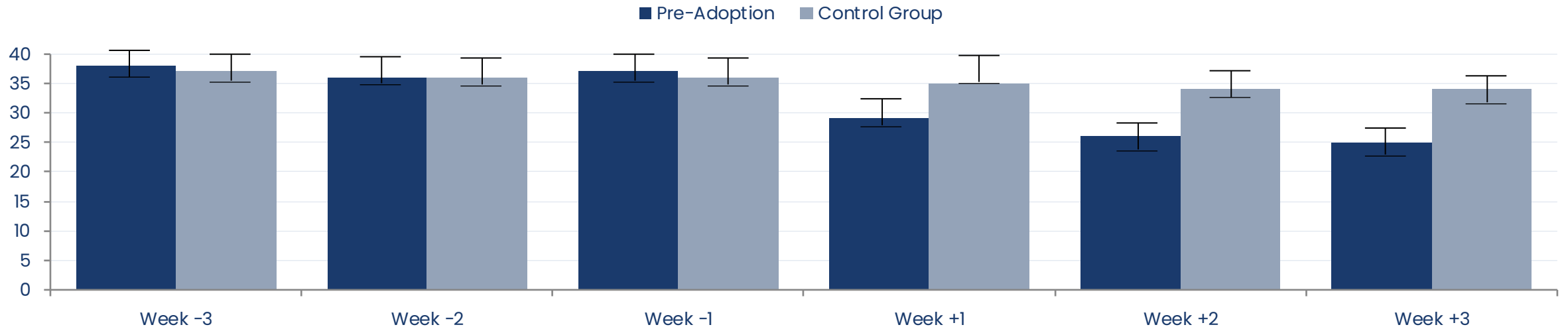
32%

Less steps to root cause treatment
vs. control group trend

44%

Time reduction to resolve
vs. control group trend

Avg. Minutes to Resolve — AI Sessions vs. Control (illustrative)



Where we are: early alpha, feedback loop closed

CURRENT STAGE

Closed Beta ~2000 users

- Feedback coverage ~20%
- Bi-weekly trader “bug bash” quality sessions
- Dashboard instrumented for ARR, feedback coverage, latency, follow-up rate
- Time-saved research comparing AI vs baseline troubleshooting workflows

HOW LEARNING COMPOUNDS

- 1 Trader asks real question in tool
- 2 Feedback captured inline, trace logged
- 3 Failure classified (scoping · actionability · jargon · link)
- 4 Prioritized by volume × severity
- 5 Fix shipped · golden set re-tested

Next steps...

Beta

External clients

Agentic

Automation

Notifications

Post Chat Experience

Audience Targeting is Not a Data Problem: It's a Workflow Problem



The Problem

Advertisers today face:

- Thousands of available audience segments
- Limited visibility into quality or freshness
- No clear link between audience choices and performance

Limited insights into how and why are segments selected to create audiences,



Online Ad



The Goal

We set out to understand:

- How advertisers build audiences
- What drives segment selection
- How often audiences are refreshed
- Why automation adoption remains low
- How audience quality impacts performance

***What prevents
advertisers
from using
better data?***

Workflow Behavior Insights



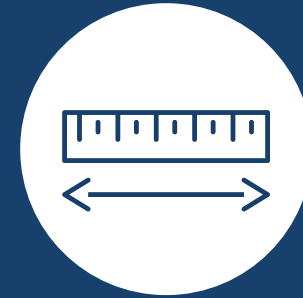
Backend event-level log data

- Audience Builder search logs
- Segment selection events
- Targeting data composition logs
- Audience update activity
- Adgroup-level performance reports



Behavioral Metrics Constructed

- Search Depth
- Selection Latency
- Segment Reuse Rate
- Audience Refresh Frequency
- **Data Enrichment**



Analytical Methods

- Timestamp-based clustering of incremental search queries
- Distributional analysis I.e. Segment diversity within audiences
- Regression analysis I.e. QRI (Audience Relevance) and CVR

82%

of audiences are
updated once or never

63%

of spend reuses 3P
segments

75%

of users ≤ 4 segment
searches before
selection

Behavioral data suggests advertisers may be:

- Using search as a navigation shortcut
- Selecting from the first few visible options
- Defaulting to familiarity over relevance

What about performance?

After controlling for segment diversity (Data Elements Per Impression) and data source (1PD vs 3PD), audience relevance is a strong predictor of conversion rate.

A 20-point increase in audience relevance is associated with an ~86% lift in CVR on average ($p < 0.01$), suggesting targeting quality drives performance more reliably than audience complexity or spend.

If relevance drives performance, why aren't advertisers selecting the most relevant segments?



Hypothesis: Position Bias

When presented with ranked segment lists, advertisers may disproportionately select:

- Segments appearing earlier in the list
- Segments that feel familiar

If true, this implies:

Audience outcomes are influenced not only by data quality but also by interface ordering



Research Approach



Survey

To understand advertiser workflows at scale around audience creation

Stated Preferences



A/B Testing

Run a randomized A/B experiment in Audience Builder

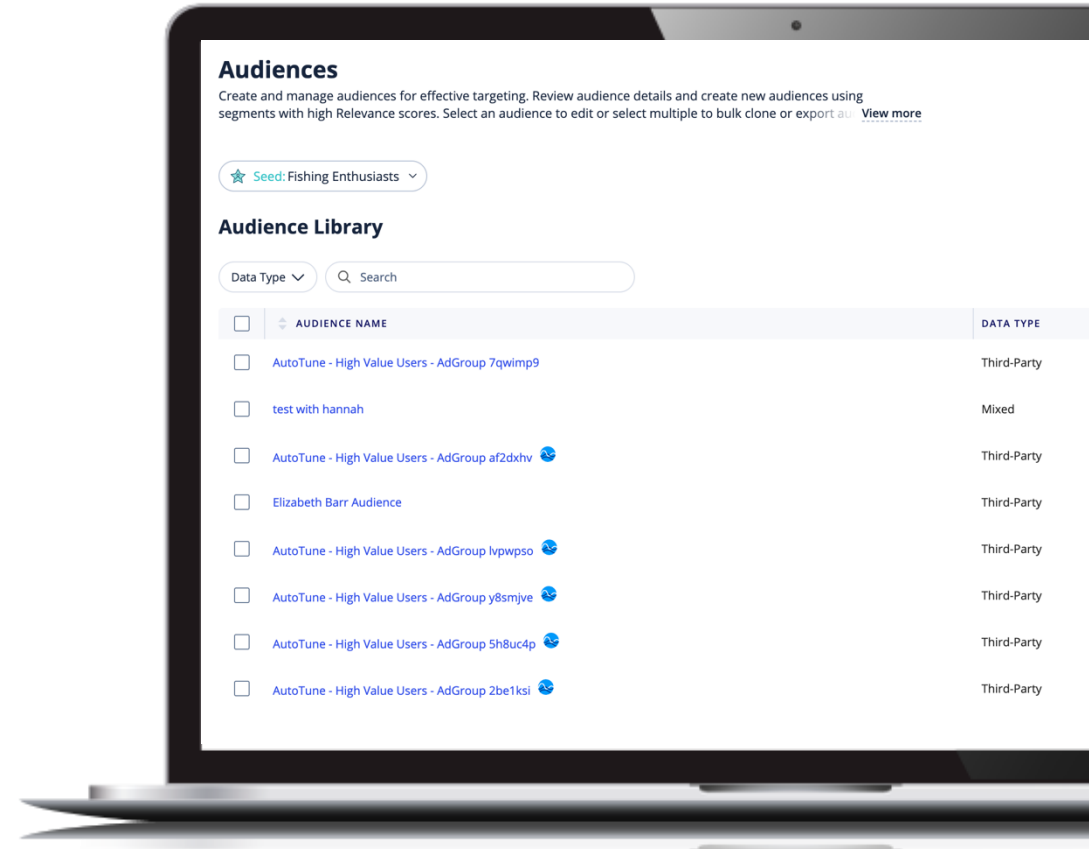
Revealed Preferences

vs

Survey

To understand advertiser workflows at scale, we propose launching a survey measuring:

- Who defines audiences
- How audiences are constructed
- How segments are judged
- How hard it is to find segments
- Confidence in evaluating segment quality
- Importance of:
 - Price
 - Scale
 - Freshness



A/B Test

To behaviorally test position bias we ran a randomized A/B experiment in Audience Builder:

Group	Segment Ordering
Control	Ranked by search relevance
Treatment	Reverse-ordered

No changes to:

- Segment content
- Relevance
- Metadata

Only list position differs.

Add segments (or)

Add recommended high-relevance segments that are based on the seed you selected or searched for.

Search

cars

cats caribbean careers car rentals

Showing segments based on search: "cars"

Filter By Data Types Market Region More Filters

<input type="checkbox"/>	SEGMENT NAME	PROVIDER	COST
200 segments		53	All
<input type="checkbox"/>	Automobiles Consumer Information > Automobiles	33Across	20% of me \$2.50 CPM
<input type="checkbox"/>	Luxury Vehicles Always-On Semasio > Auto > Luxury Vehicles	Semasio	25% of me EUR 2.00 C
<input type="checkbox"/>	Sports Cars (Used) Data Alliance > Automotive > Motor Vehicles > Motor Vehi...	Data Alliance	20% of me \$2.00 CPM
<input type="checkbox"/>	Motorcycles Auto > Motorcycles	33Across	20% of me \$2.50 CPM
<input type="checkbox"/>	Luxury Auto Auto > Luxury Auto	33Across	20% of me \$2.50 CPM
<input type="checkbox"/>	Cars Data Alliance > Hobbies & Interests > Models > Cars	Data Alliance	24% of me \$0.95 CPM
<input type="checkbox"/>	reviews - affinity interests > autos > reviews > reviews - affinity	Data Alliance	17.5% of m cost, \$2.25 max
<input type="checkbox"/>	Cars Shopping > Cars	Cross Pixel	28% of me \$2.50 CPM
<input type="checkbox"/>	Luxury Vehicles Data Alliance > Automotive > Motor Vehicles > Motor Vehi...	Data Alliance	20% of me \$2.00 CPM
<input type="checkbox"/>	affinity purchase intent > autos > cars > affinity	Data Alliance	13% of me \$1.50 CPM
<input type="checkbox"/>	Car Consumer > Auto > Car	Distillery	25% of me \$0.99 CPM
<input type="checkbox"/>	Cars Predictive Social > Persona > Cars	Distillery	25% of me \$0.99 CPM
<input type="checkbox"/>	Cars Consumer > Auto > Cars	Distillery	25% of me \$0.99 CPM

A/B Test

- **Randomization:** Search Query Event Level
- **Ranked by Relevance Score :** We don't change the segment pool, only the order they are displayed.

Field	Example
Search Term	cars
Assigned Group	treatment
Original Rank	8
Displayed Rank	1
Selected?	1

Segment Selected = 1 if selected , 0 otherwise

Independent variables:

- Displayed Position (1–10)
- Original Relevance Rank
- Segment Price

Add segments (or)

Add recommended high-relevance segments that are based on the seed you selected or searched

Search

cars

cats caribbean careers car rentals

Showing segments based on search: "cars"

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<input type="checkbox"/>	Cars Consumer > Auto > Cars	Distillery	25% of me \$0.99 CPM

Findings

Survey

31% indicate audience strategy is defined externally but

68% rely primarily on search to explore segments

For 49% automation is viewed with caution — advertisers want transparency and control

19% rate relevance score as important

A/B Testing

Probability of selection decreases as position drops even when relevance is held constant

Top-3 Displayed Segment: 4.2× more likely to be selected

Segments originally ranked 7–10 have a selection rate of 41% when ranked Rank 1–3

Position bias hypothesis proven



Product Recommendation

- 1 We need to close the loop between reporting (where users see impact of the audience) with audience selection
- 2 Promote high-performing searches: Improve back-end relevance scale to display not only semantic relevance
- 3 Communicate better in the UI how the audiences are ranked
- 3 UI reminders to update audiences and recommendations on good fits

“Make it easier for clients to select the good segments”

Measuring Clients' Trust & Satisfaction While Improving Product

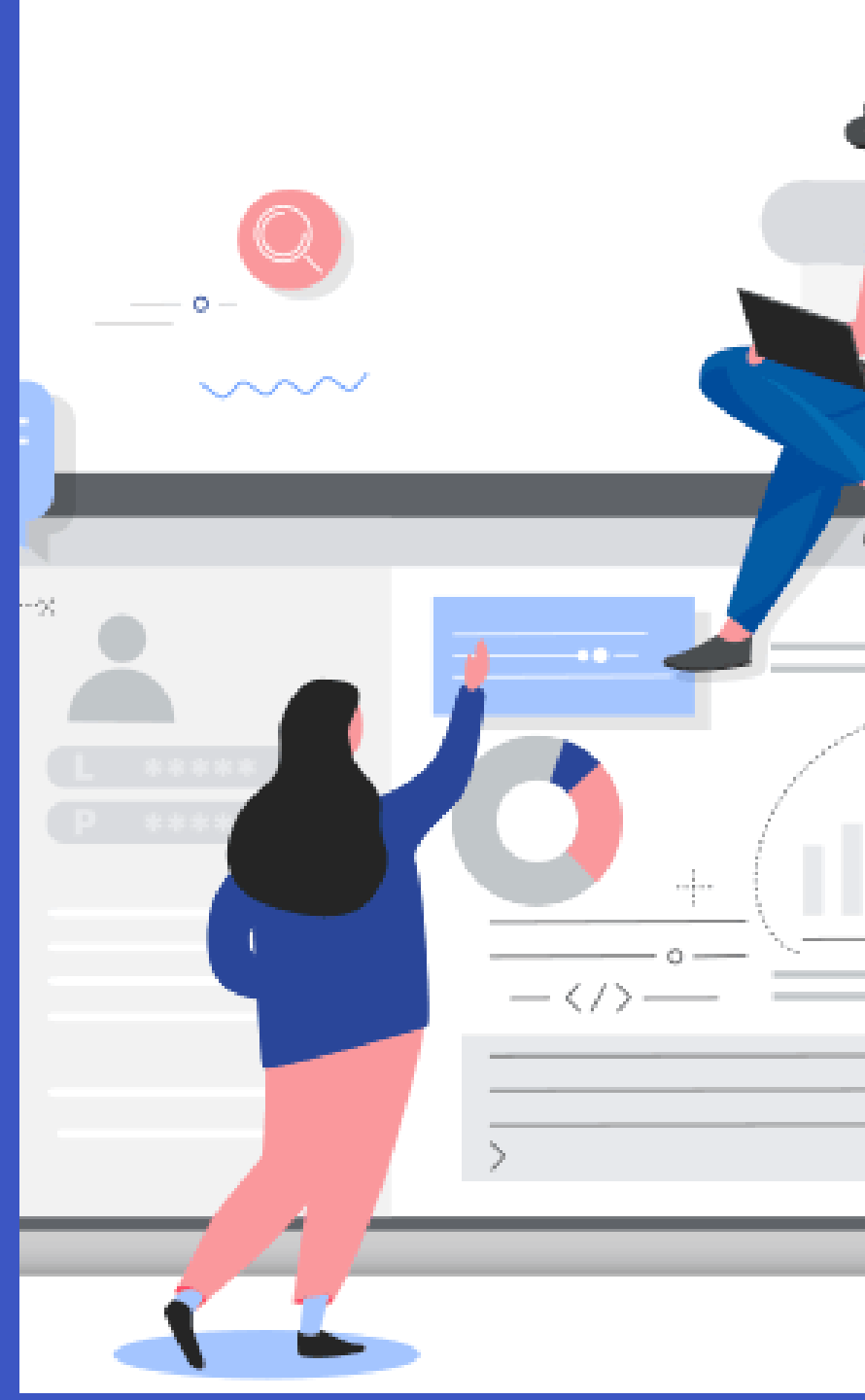


***“If you can’t measure it, you
can’t improve it.”***

– Peter Drucker

The problem

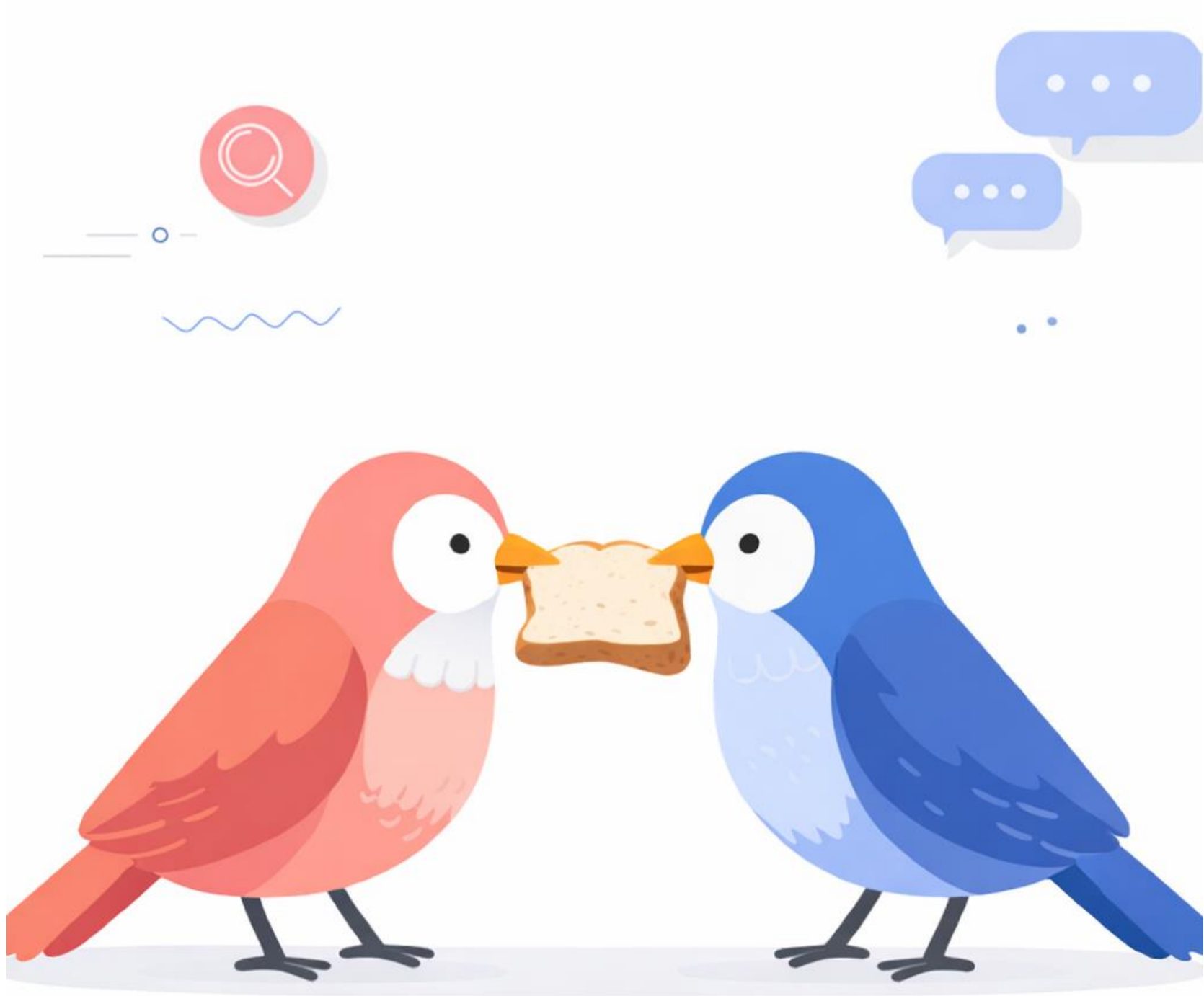
- Lack of systematic way to measure **user satisfaction** with the different workflows in the platform.
- No insight into downstream effects: the company couldn't see how workflow friction cascaded into broader platform perceptions
- The company had no reliable way to detect where users were struggling—or why some workflows felt more frustrating or inefficient than others.
- Product development risk: decisions based on **anecdotes rather than empirical evidence.**



The problem

**Leadership &
Client Services
care about
customer trust**

**Product wants
concrete guidance on
how to benchmark
their areas**



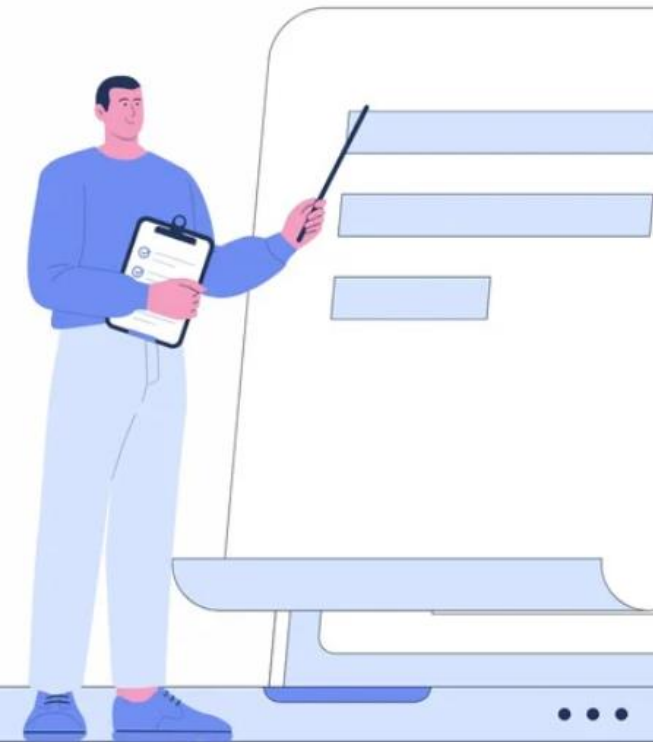


Approach

**Survey Design to
quantify UX Quality, Trust, and Satisfaction**



Goals



- **Create a single, trusted signal of customer experience** – Establish a consistent quarterly view of CSAT and UX quality across TTD so leadership has one shared source of truth for experience health.
- **Track progress and impact over time** – Measure trends quarter over quarter to understand whether investments are improving ease-of-use, effectiveness, and overall customer satisfaction.
- **Focus and prioritize what matters most** – Identify and prioritize the most severe UX issues within key product areas and workflows so teams address the highest-impact problems first.

UX Quality

We measured two outcomes per 10 workflows:



Ease of Use

Ease of Use refers to *how simple, intuitive, and low-effort a workflow feels for the user.*



Effectiveness

Effectiveness refers to the user's perception of whether the workflow *successfully accomplishes what they need it to do.*

CSAT



- Customer Satisfaction Score (CSAT) measures customer satisfaction with a business.
- It's one of the most straightforward ways to measure customer satisfaction, and it's obtained by asking a simple question, such as 'How satisfied were you with your experience?'
- To answer, there's a corresponding 1-5 survey scale

What is Trust?

Reliable

The product is dependable, consistent, and performs as expected every time.

Motives

The underlying intentions and motivations and alignment with the interests of customers and stakeholders.

Integrity

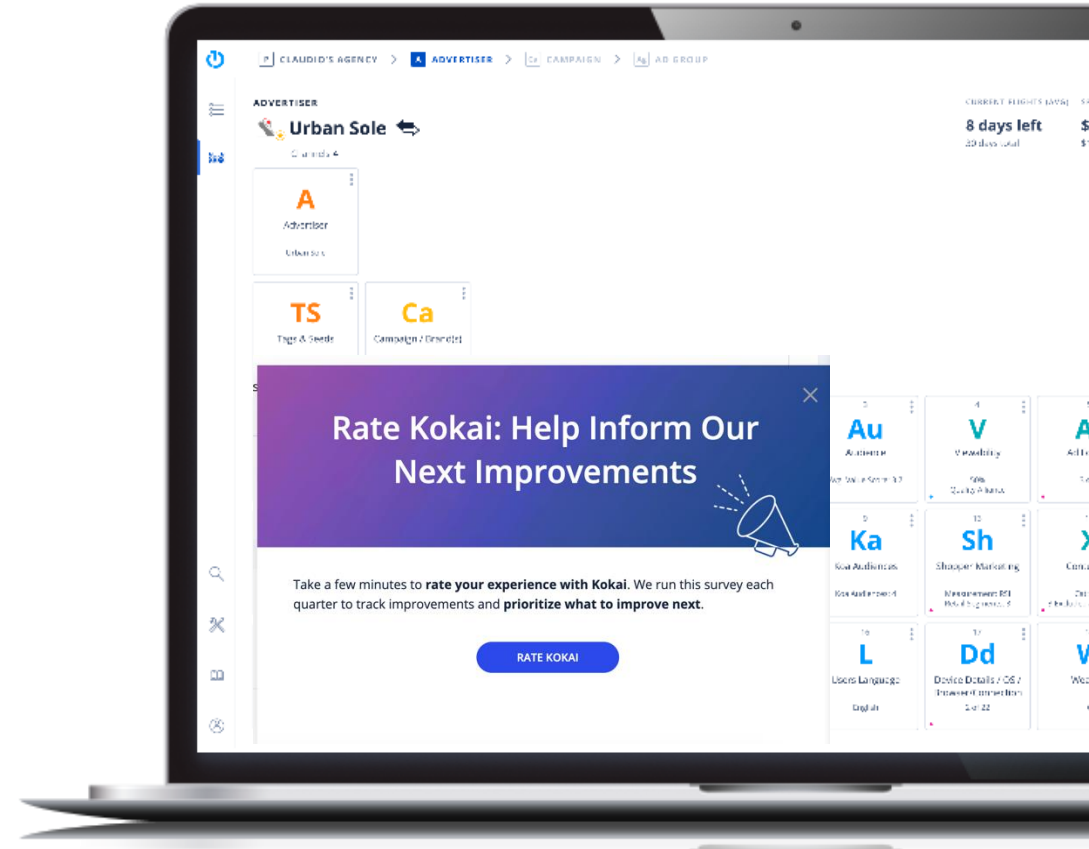
The ethical and responsible practices of a company such as transparency, integrity, fairness, and adherence to ethical standards.

Delivers Results

The perceived ability of a company to deliver quality product and achieve desired outcomes.

Sampling & Fielding

- **Frame:** Active external users in last 30 days with ≥ 3 sessions
- **Method:** In-product invite; stratified by role, spend tier, and region
- **N (3000):** 1000 completes
- **Scale:** 5-point Likert; “approval required” reverse-coded
- **QC:** Speeders removed, attention check, partials < 80% dropped; minimal imputation



Analysis Plan



Descriptives

- Data cleaning
- Distributions
- Poststratification weights



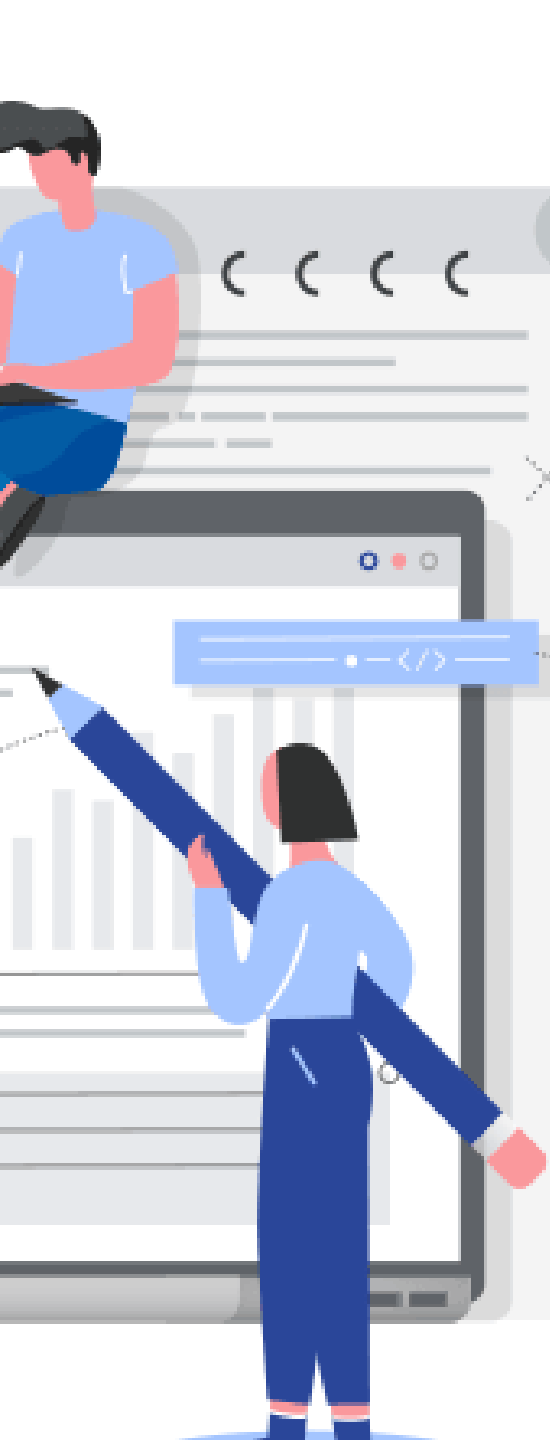
Measurement validation (CFA)

- Loadings
- Reliability (α /CR, AVE)
- Discriminant validity (HTMT)



Structural Modeling

- MIMIC (Multiple Indicators, Multiple Causes) SEM: estimate direct and indirect paths
- Estimator: WLSMV (ordinal Likert) with bootstrapped CIs; controls
- Robustness: Model fit (CFI/TLI/RMSEA/SRMR)



What we learned

We evaluated a clear, theory-driven chain:

Workflow Time → **Workflow Ease** → **Platform Ease** → **Platform Effectiveness** → **CSAT** → **Trust**

Workflow ease flows upward to Platform Ease

Platform Ease is a latent construct built from users' ease-of-use experience across workflows. It's the shared signal across all workflows.

Not all workflows contribute to ease of use equally. The biggest drivers of how "easy" the platform feels overall are:

- **Editing campaigns** ($\beta = .39$ Importance ~36%)
- **Creating campaigns** ($\beta = .33$ Importance ~26%)

Users judge the platform's ease of use *primarily* based on these core workflows. Together, these account for ~62% of the shared ease-of-use signal.





Platform Ease Predicts Platform Effectiveness

Platform Effectiveness is another latent construct that reflects how well the platform helps users meet their needs across workflows.

Platform Ease is the dominant driver of Platform Effectiveness, accounting for ~64% of how users judge whether the platform works for them.

When users feel the platform is easy to use, they are much more likely to feel the platform helps them accomplish their goals.

Effectiveness is the Key Driver of CSAT



Platform effectiveness explains ~67% of the user satisfaction (CSAT)

The *majority* of CSAT is explained by whether the platform helps people accomplish their goals.

Ease → enables productivity
Productivity → drives satisfaction

Trust is a real, stable construct

The four trust items (Reliable, Motives, Integrity, Delivers Results) all load strongly onto a single underlying “Trust” dimension.

This means:

- Users clearly have a **coherent mental model of trust**
- We can measure and influence it reliably
- Improving upstream experience (ease → satisfaction) can shift trust meaningfully



The experience chain for users

We see a strong, intuitive progression in how people form opinions about the platform:

- **If workflows feel easier** →
- **The platform feels more effective** →
- **Users feel more satisfied** →
- **and ultimately trust increases.**

This chain holds tightly across all respondents. It shows that *improving the experience isn't cosmetic—it's foundational to satisfaction and trust.*

(Chain: $\beta = .65 \rightarrow .73 \rightarrow .46$; all $p < .001$)



Time ≠ Engagement

Users feel friction—and it's measurable. When people spend more time in a workflow, they consistently report it feeling harder to use.

This friction shows up most clearly in:

- **Editing** (strongest pain)
- **Creating**

This tells us: **time is a real signal of user struggle**, not just an operational metric.

Spending more time in a workflow consistently predicts *lower perceived ease*



Model showed that more time in a workflow is a signal of struggle—not engagement—unlocking a new, actionable way to interpret user behavior.

More Time ≠ More Engagement

40%

of sessions that contain Inventory Controls also contain Inventory Selection



18%

of sessions that contain Inventory Selection also contain Inventory Controls

28%

of sessions that contain Creative Library also contain Creative Selection

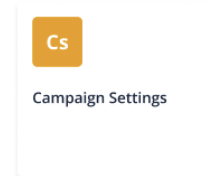
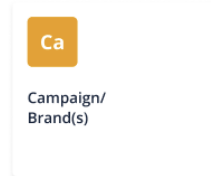


10%

of sessions that contain Creative Selection also contain Creative Library

22%

of sessions that contain Campaign Overview also contain Campaign Settings

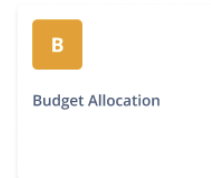
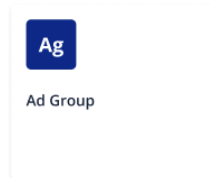


14%

of sessions that contain Campaign Settings also contain Campaign Overview

17%

of sessions that contain Ad Group also contain Budget



8%

of sessions that contain Budget also contain Ad Group

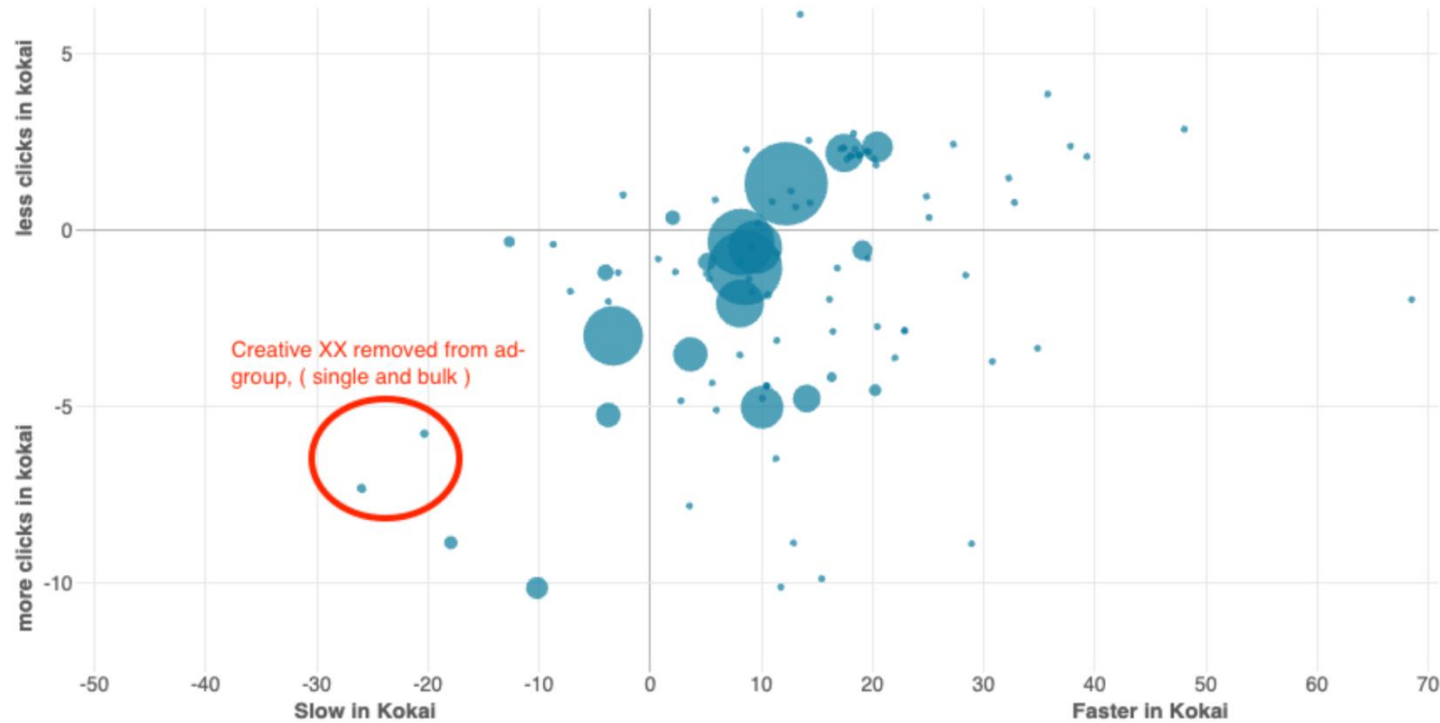
More Time \neq More Engagement

Solimar-Kokai Difference

The plot below shows differences in solimar - kokai.

+ve values: Solimar time/click is higher than Kokai

-ve values: Kokai time/click is higher than Solimar



Tailored Deliverables

Trust Index

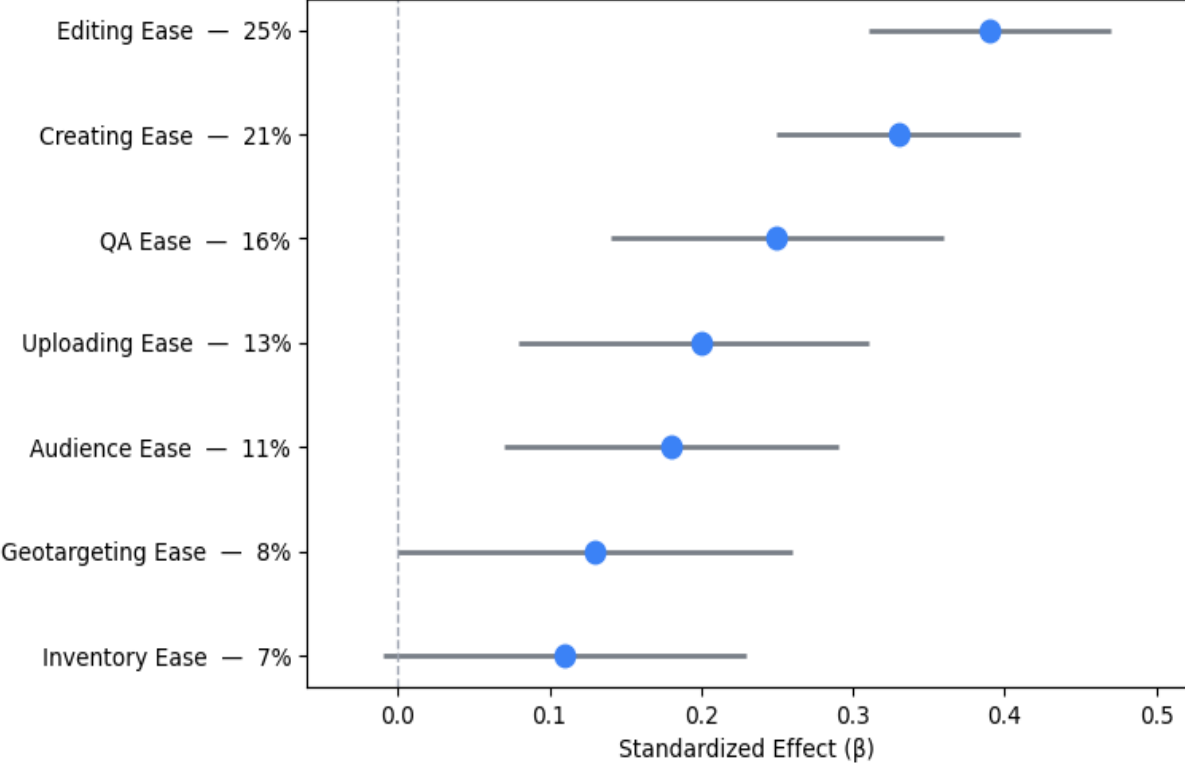
Trust is calculated as the average across the 4 factors resulting in a score between 0 to 100.



Driver Maps

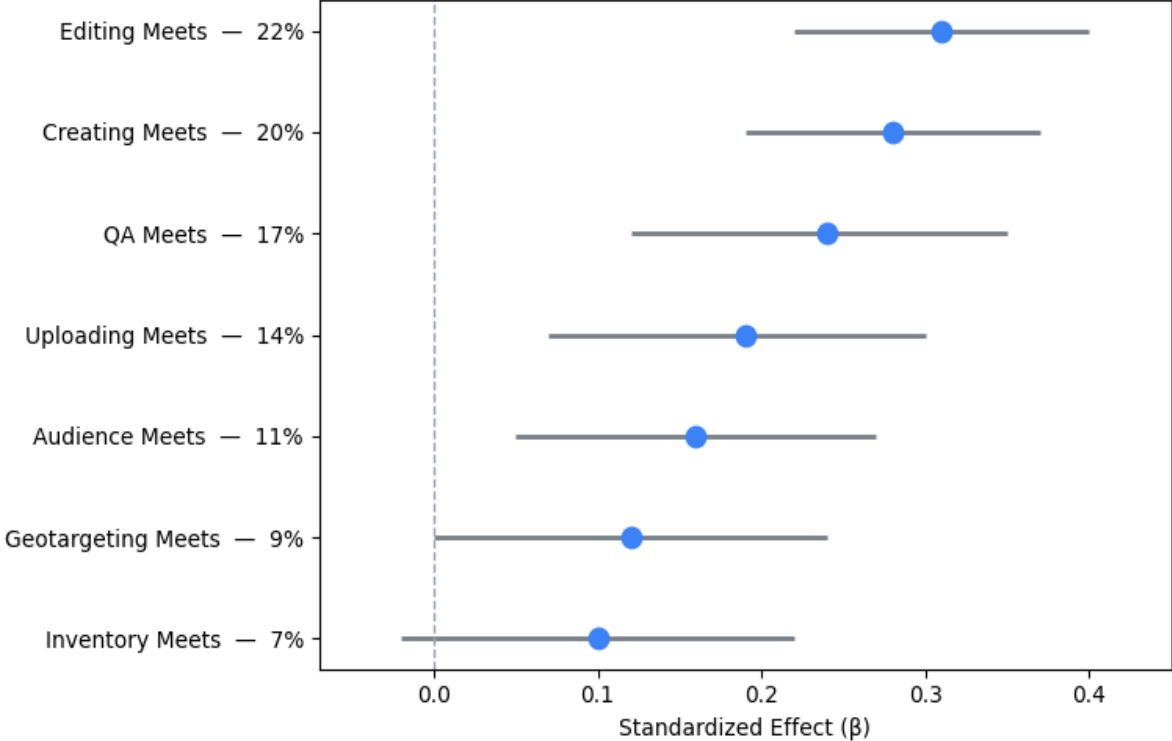
What Drives Platform Ease?

Standardized effects (β) • Importance normalized to 100% • 95% Cis • $R^2 = .68$



What Drives Platform Effectiveness?

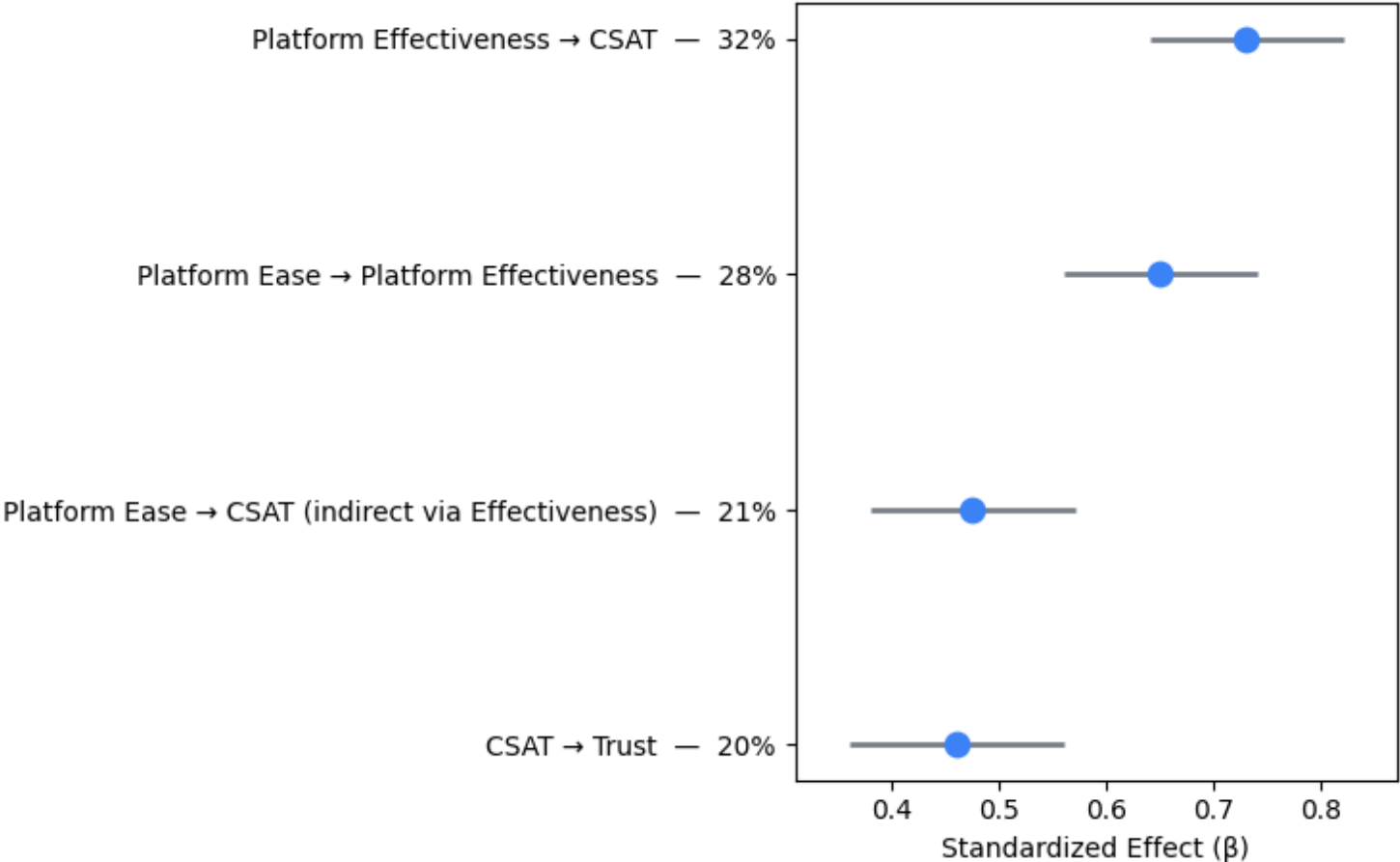
Standardized effects (β) • Importance normalized to 100% • 95% Cis • $R^2 = .58$



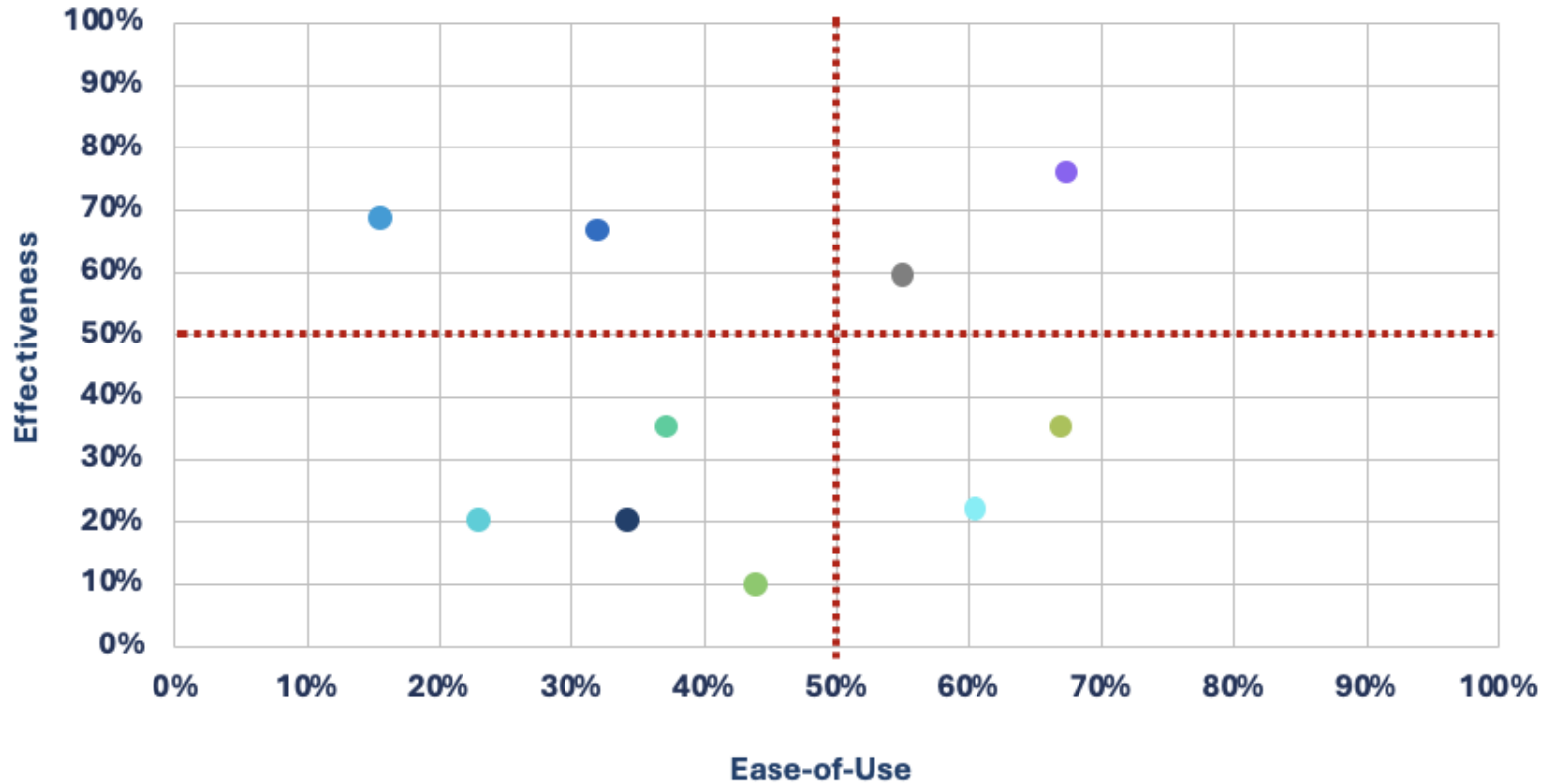
Driver Maps

Platform Chain: Ease – Effectiveness- CSAT- Trust

Standardized effects (β) • Importance normalized to 100% • 95% CIs



Product Area Comparisons



- Campaign Creation/QA/Edit
- Troubleshooting
- Optimization
- Inventory
- Creative management
- Reporting
- Forecasting
- Audiences
- Measurement
- Geography

Hold Co vs Indie

	Hold Co	Indie Agencies
Top CUJ	Monitor, Report, Troubleshoot, Create Campaigns	Monitor, Report, Troubleshoot, Create Campaigns. Manage inventory more than Hold Co*.
CSAT	Slightly higher than overall CSAT	Slightly lower than overall CSAT
Trust in TTD	Trusts TTD (85/100)	Trusts TTD (84/100) but trust KOA less than Hold Co*
% Time Spent in Kokai	79%	62%*

* Statistically significant differences

Collaboration & Feedback

- **Product Area PMs**
- **Data Science**
- **Qual UXR**
- **Content team**
- **Client Services**
- **Senior Leadership**



Timeline

Week 1

Week 2

Week 3

Week 4

Survey
Instrument

Implementation &
Gather Data

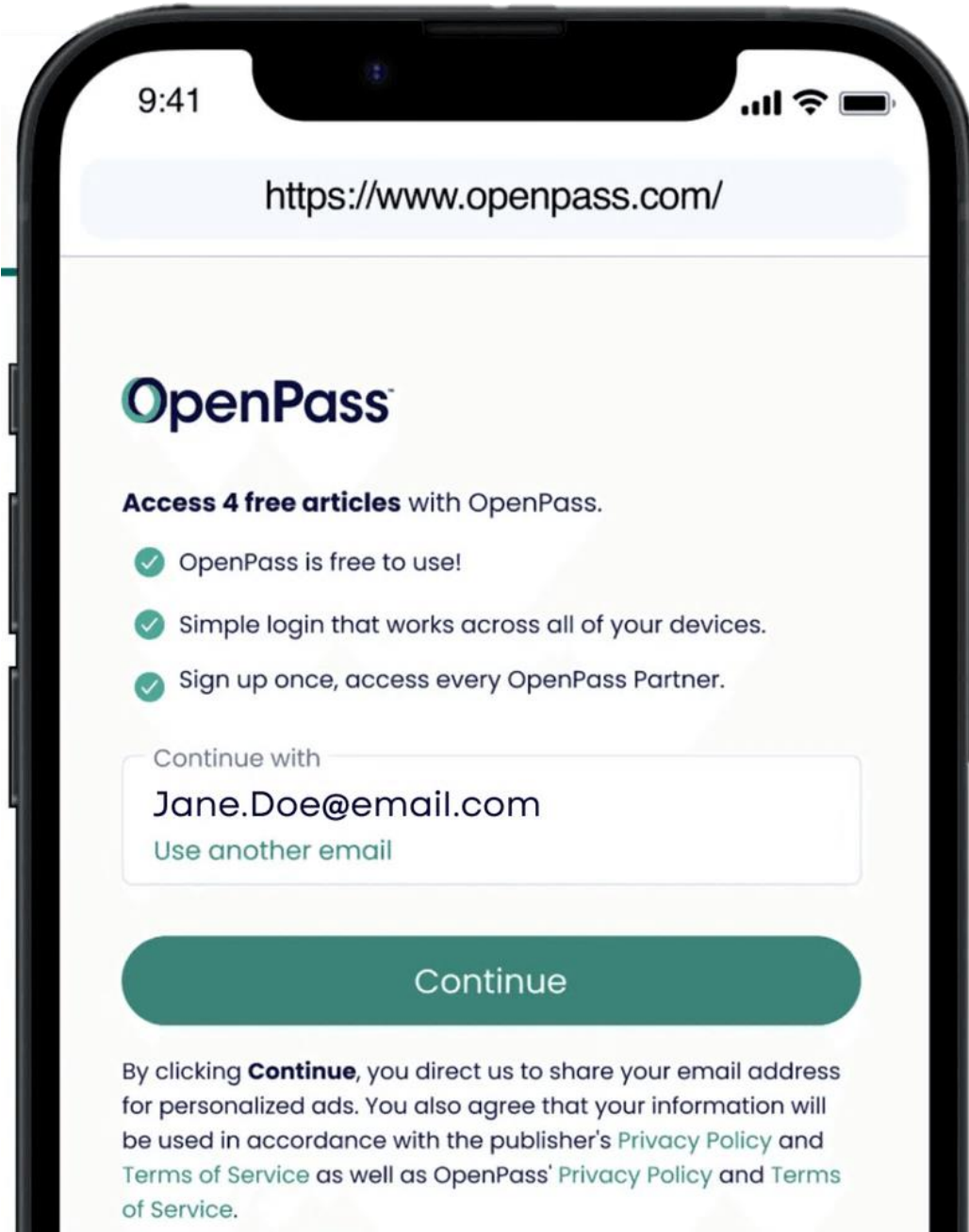
Cleaning, CFA, SEM,
segment checks

Readout &
Socialization

OpenPass

A/B Survey > A/B Testing





OpenPass is The Trade Desk sign-on (SSO) solution that allows organizations to increase authenticated users on their websites and apps.

Consumers can access premium content across the open internet using just their first name, last name, and email address (using their phone number is optional).

Objective

Identify what type of sign-in text format and content is preferred by users to sign-in into OpenPass

Problem

Many types of copy, design, not enough sample size,

NOT ENOUGH TIME!

A/B Survey

Conjoint Attributes and Levels

1. Text Format

Text

Sign in with OpenPass X

Use your OpenPass Account to sign in to Reddit

No more passwords to remember. Signing in is fast, simple, and secure.

Continue

Bullet

Sign in with OpenPass X

Use your OpenPass Account to sign in to Reddit

- No passwords
- Signing in is fast, simple, and secure

Continue

Free

Sign in with OpenPass X

Help keep the best of the internet free

OpenPass is safe, password-free, and supports an open internet for all.

Continue

Intrigue

Sign in with OpenPass X

This isn't just another way to sign in to Reddit

- It's safe.
- It's password-free.
- It supports an open internet for everyone.

Continue

2. Content

Neutral

Sign in with OpenPass X

Use your OpenPass Account to sign in to Reddit

- No passwords
- Signing in is fast, simple, and secure

Continue

Fear

Sign in with OpenPass X

Do you know where your passwords are?

- They could be anywhere.
- Forget 'em and sign in securely with OpenPass.

Continue

More

Sign in with OpenPass X

An OpenPass to Reddit and more

- Sign-in to Reddit and other sites securely without a password, with OpenPass.
- Signing in is fast, simple, and secure.

Continue

Humor

Sign in with OpenPass X

We know, you're just trying to get to Reddit

Do it faster, securely, and without a password with OpenPass. Onwards!

Continue


Conjoint Methodology

Each of the 200 participants complete 10 tasks: in each tasks they choose the option/scenario where they are more likely to complete the sign-in. For example:

Task 1:

(1/10) Select the text option you would be more likely to click on to sign-in:

Option 1




An OpenPass to Reddit and more

Sign-in to Reddit and other sites securely, without a password, with OpenPass.

Continue

Option 2



Use your OpenPass Account to sign in to Reddit

No more passwords to remember. Signing in is fast, simple, and secure.


Continue



Task 2:

(2/10) Select the text option you would be more likely to click on to sign-in:

Option 1




This isn't just another way to sign in to Reddit

- It's safe.
- It's password-free.
- It supports an open internet for everyone.

Continue

Option 2



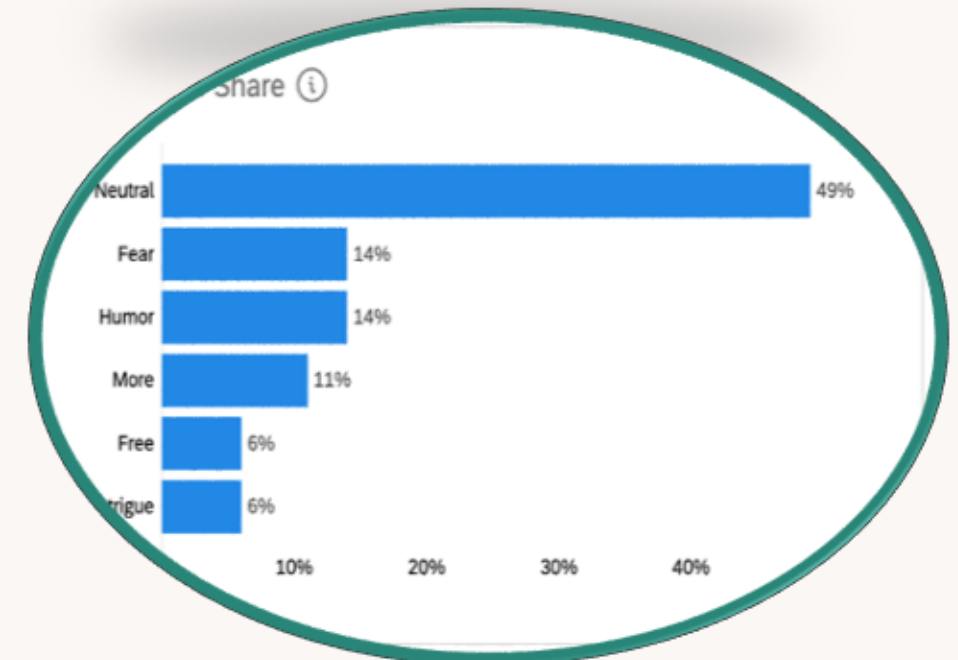
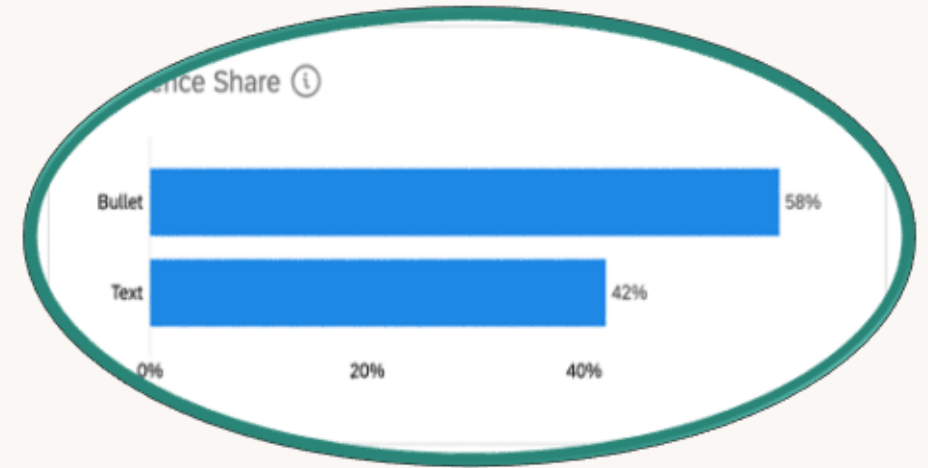
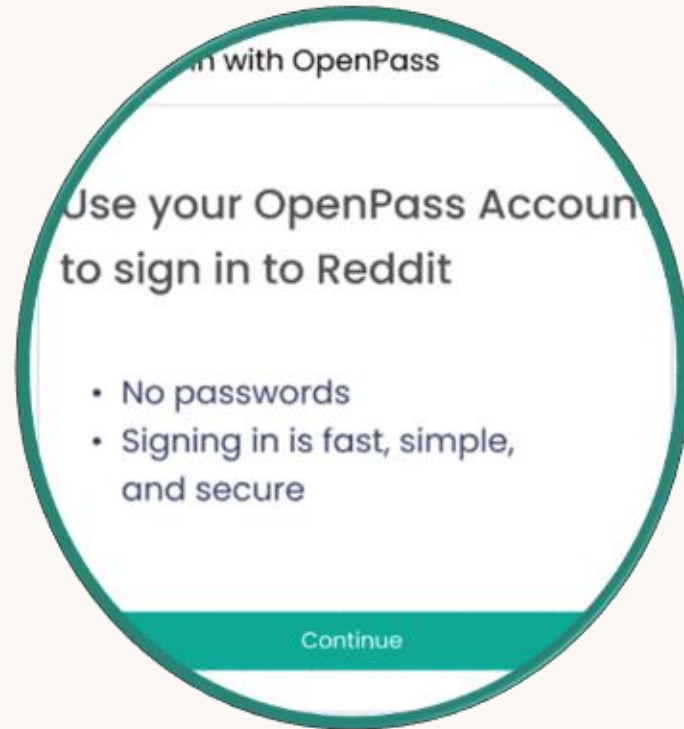
Do you know where your passwords are?

They could be anywhere. Forget 'em and sign in securely with OpenPass.

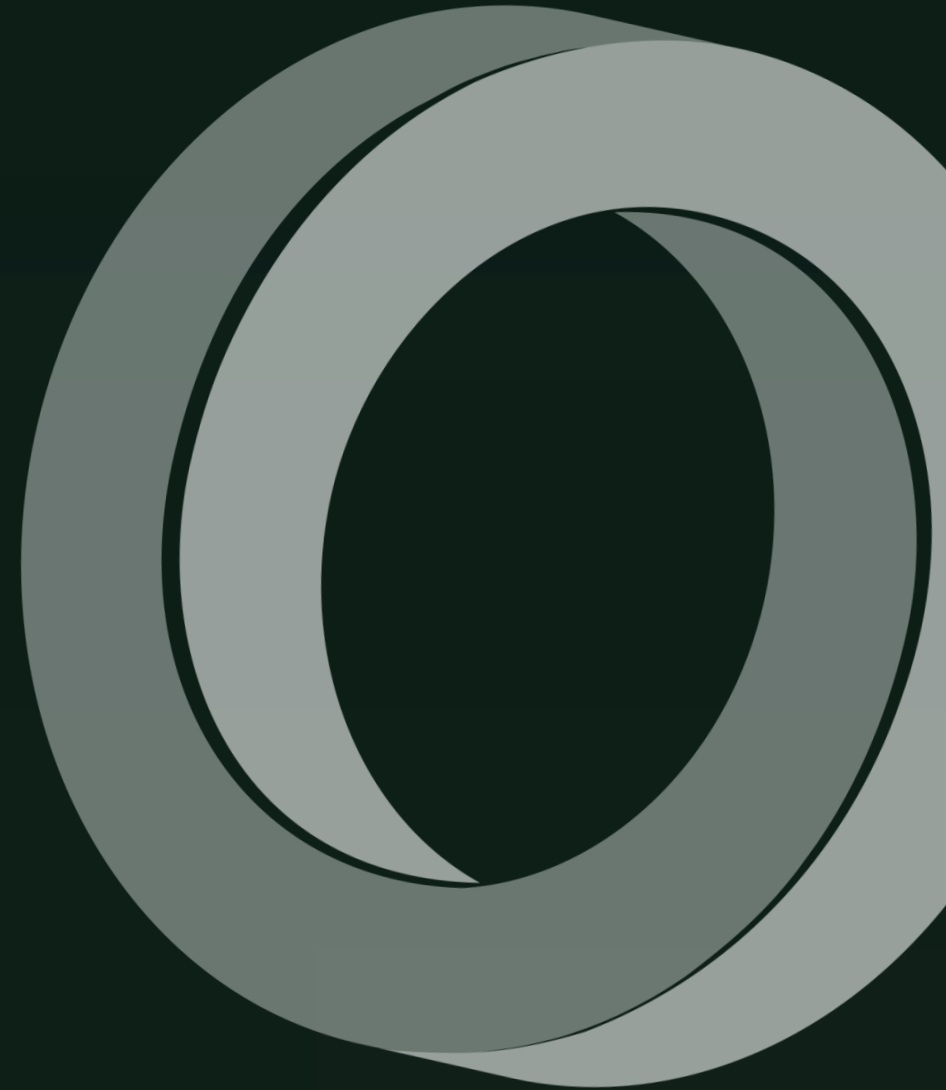
Continue

Conjoint Methodology

Based on the combination of text format and content, the preferred sign-in by users is the neutral sign-in, combined with bullet points.



Benchmarking OpenPass Sign- In Experience



The Problem

Publishers hesitate to adopt OpenPass without proof that its **sign-in experience matches or exceeds competitors.**

Existing perceptions of usability are influenced by **brand recognition**, not the actual product experience.

Lack of empirical evidence makes it harder to **differentiate OpenPass** and persuade clients.



Research Challenge

- **Our leading's competitor strong brand recognition** biases user evaluations of sign-in flows.
- Directly comparing OpenPass vs. Competitor risks **unfair judgments** not based on usability.
- Needed a **fair, brand-neutral benchmark** to validate OpenPass's sign-in experience.

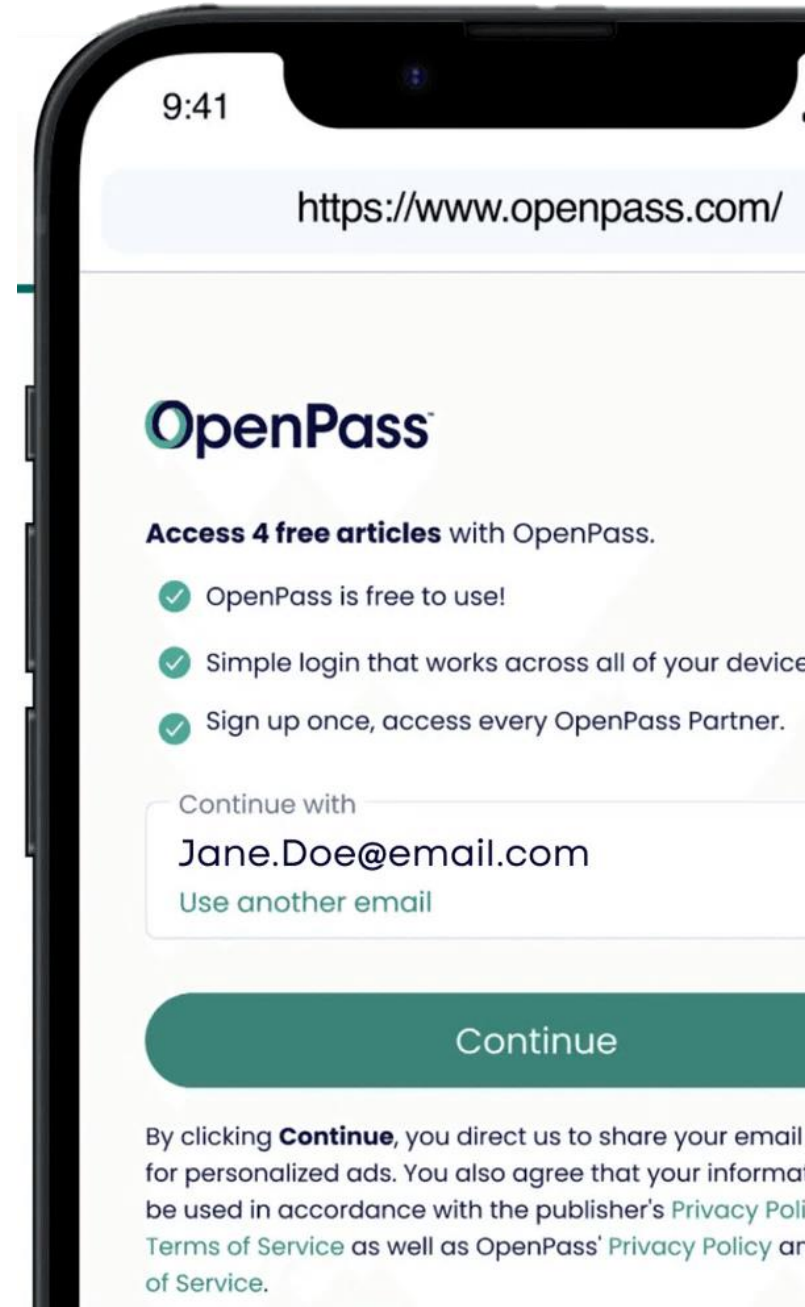


Research Approach

- **White-label competitor test:** Used Competitor's sign-in flow but replaced branding with OpenPass to remove brand bias.
- Conducted an **A/B test:**
 - Condition A → OpenPass UX
 - Condition B → White-labeled Competitor's UX
- Survey to measure and benchmark usability and satisfaction.
- In-depth interviews.
- Participants recruited via **dscout** (n ≈ 500).

Design

- Participants completed **two tasks**:
 - New user sign-in
 - Returning user sign-in
- After each task, participants rated:
 - **Overall experience** (1 = Very poor, 5 = Very good)
 - **Ease of use** (1 = Very difficult, 5 = Very easy)
 - **Ease of use vs. other providers** (Google, Facebook, Microsoft)
 - **Trust in provider's handling of private data**
 - Whether they **read Terms & Conditions**, and clarity if read



A/B Test

OpenPass[™] Sign-In

BOOSTFITNESS | OpenPass[™]

Unlock Boost Fitness with OpenPass

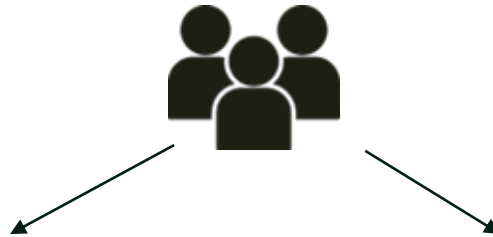
- ✔ OpenPass is free to use!
- ✔ Simple login that works across all of your devices.
- ✔ Sign up once, access every OpenPass partner.

Enter email address

Continue

By clicking **Continue**, you direct us to share your email address with Boost Fitness, for personalized ads. You also agree that your information will be used in accordance with the OpenPass [Privacy Policy](#) and [Terms of Service](#).

300 consumers



*Control for bias towards Google's brand recognition.
Fair test and comparison of the sign-in experiences.



White Label Sign-In*

Sign in with OpenPass

BOOSTFITNESS
Sign In
to continue to BoostFitness

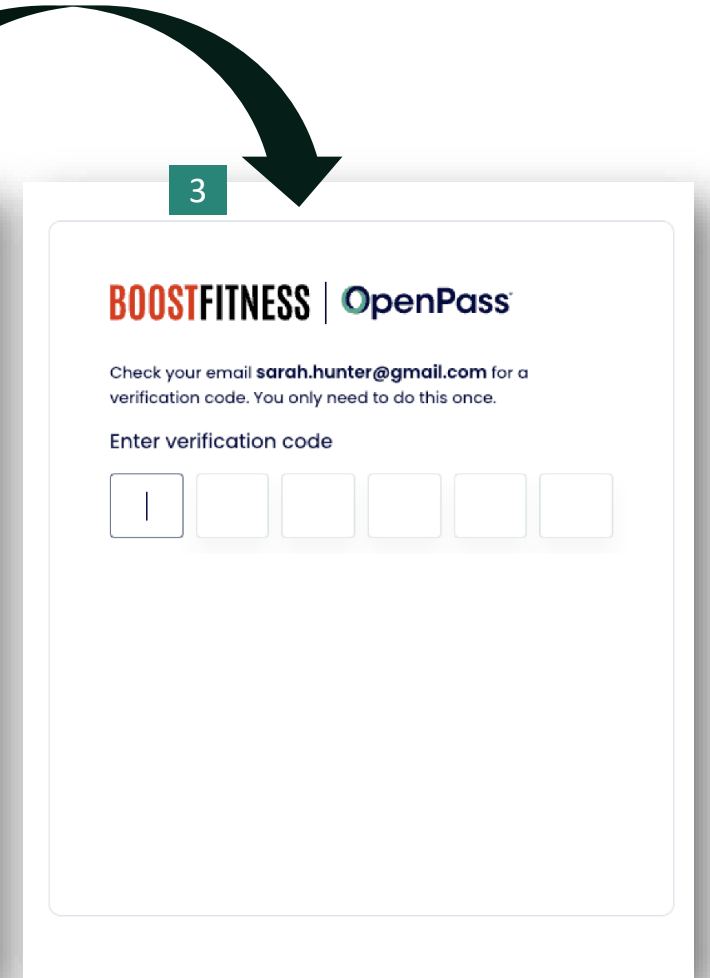
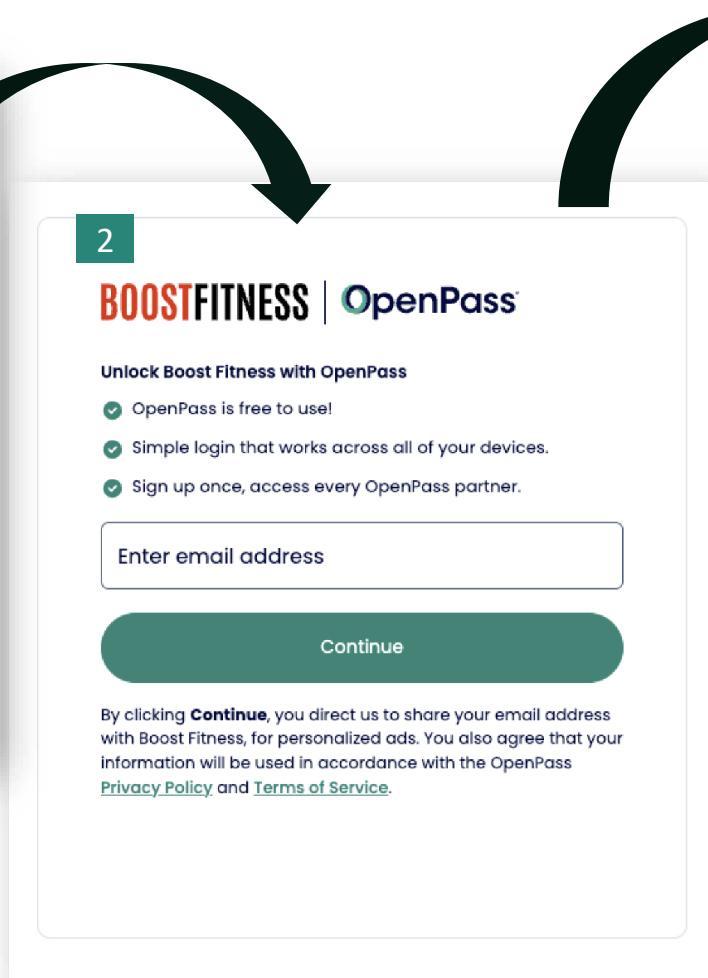
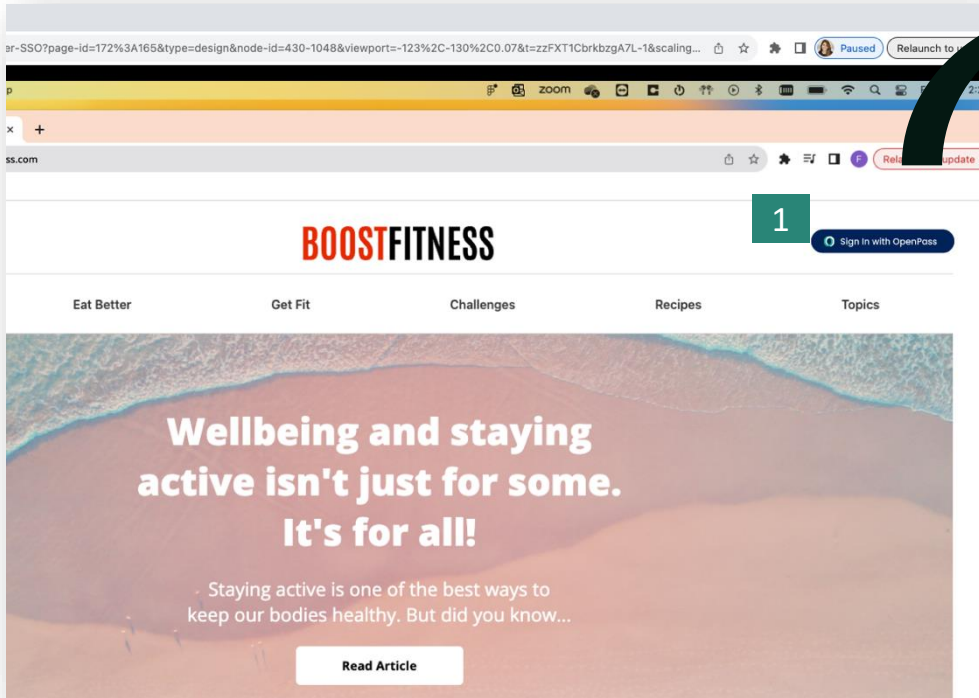
Email or phone

Forgot email?

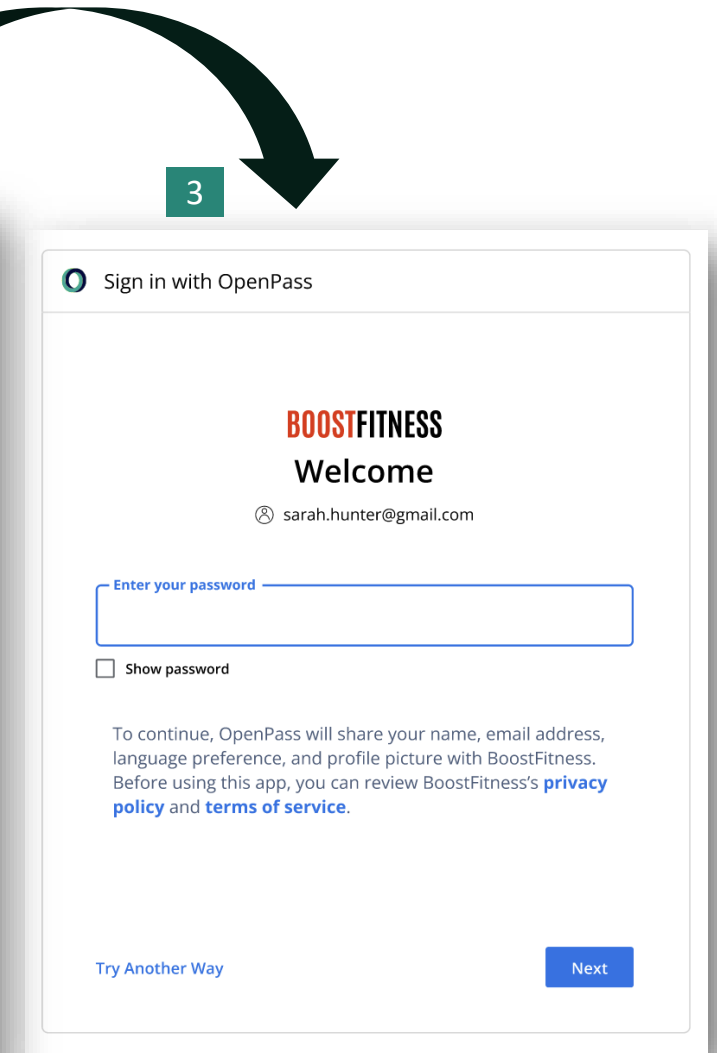
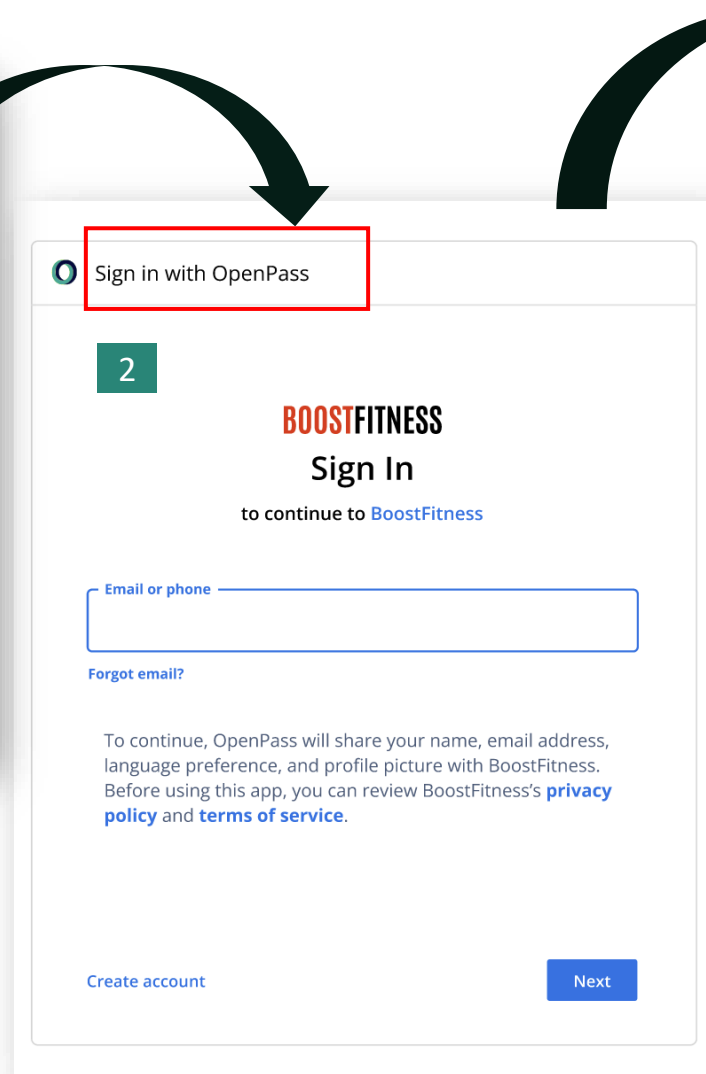
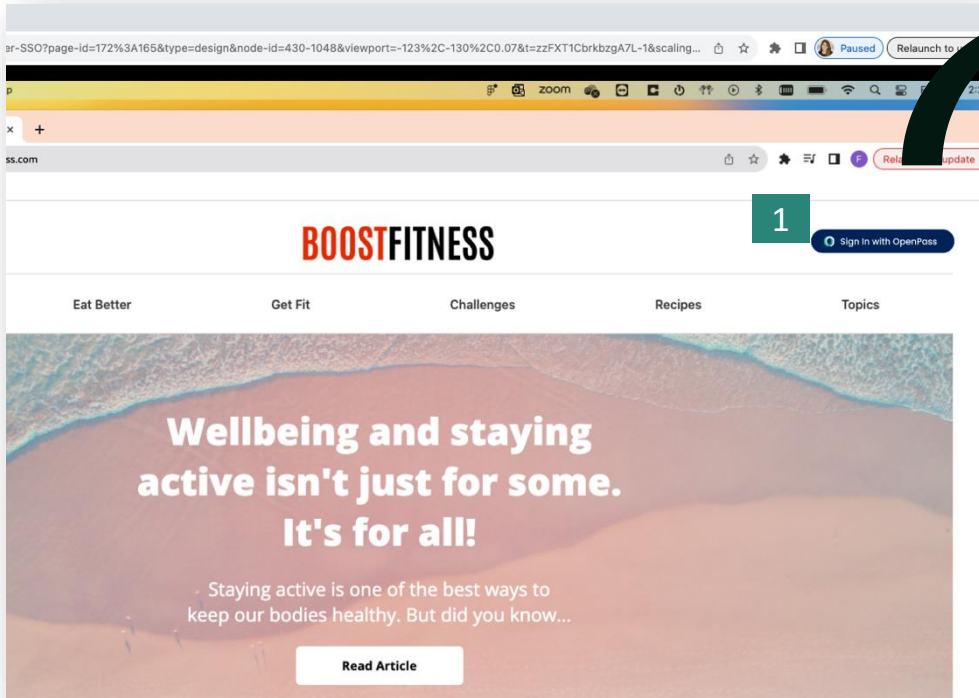
To continue, OpenPass will share your name, email address, language preference, and profile picture with BoostFitness. Before using this app, you can review BoostFitness's [privacy policy](#) and [terms of service](#).

Create account Next

OpenPass Workflow



OpenPass Workflow



Survey Questions

Participants completed a new user and returning user sign-in in experience

For each of these experiences they were asked to rate:

- 1) Overall experience (1=Very poor, 5= Very good)
- 2) Ease of use (1=Very difficult, 5=Very easy)
- 3) Ease of use compared to other sign-in providers (1= Significantly difficult, 5= Significantly easier)
- 4) Rate trust of providers' handling private data (1=Very low trust, 5= Very high trust)
- 5) Did they read the terms and conditions (Yes, No)
 - If so, rate the clarity (1=Very unclear, 5=very clear)

What we found ...



New User Sign-In Experience

- 1 Most participants (81%) reported a good or very good overall experience with the OpenPass sign-in, same as the white-labeled Google (81%). There is no statistically significant difference in overall experience between the two groups
- 2 Participants rated the ease of use for the OpenPass UX as 4.6 out of a 5-point scale, aligning closely with the white-labeled Google UX (4.7 points). There is no statistically significant difference in the ease of use between the two groups
- 3 Most reported the OpenPass UX was similar (64%) or easier (34%) compared to other providers (i.e., Google, Facebook or Microsoft). In white-labeled Google group, 46% reported it as easier compared to other providers (statistically significant difference)

*OpenPass' UX
ease of use is
comparable to
Google's*



Research Impact

Participants completed a new user and returning user sign-in in experience

For each of these experiences they were asked to rate:

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- 3) Ease of use compared to other sign-in providers (1= Significantly difficult, 5= Significantly easier)
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