

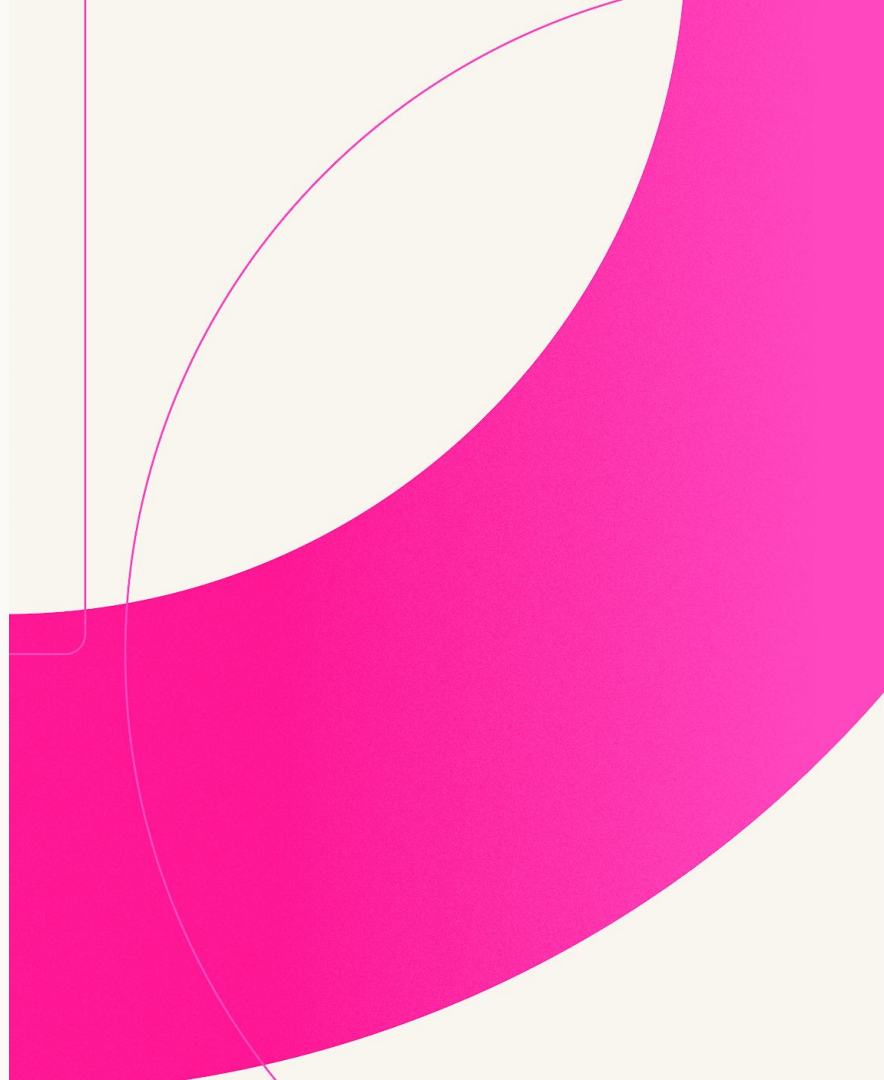


Webinar

**Launching Geolift:
A Game-Changer for
Modern Marketers**

eppo

Agenda

1. Learning Culture and Searching for Incrementality
 2. Fireside chat with Bryce Casavant, Senior Data Scientist at Whoop
 3. Eppo Geolift Launch
 4. Q&A
- 

Your webinar crew



Elizabeth George

Head of Marketing



Greg Dale

Marketing Experimentation Lead



Bryce Casavant

Senior Data Scientist



eppo

airbnb

Uber

STITCH FIX

LinkedIn

ClickUp

gojek

GOLD
BELLY

miro

GoodRx

ID.me

STRAVA
zapier

twitch

ShareChat

Rakuten

cameo

VOLVO
coinbase

perplexity

DRAFTKINGS

descript

zalando

Delivery Hero
The Farmer's Dog

Handshake

PATREON

Airtable

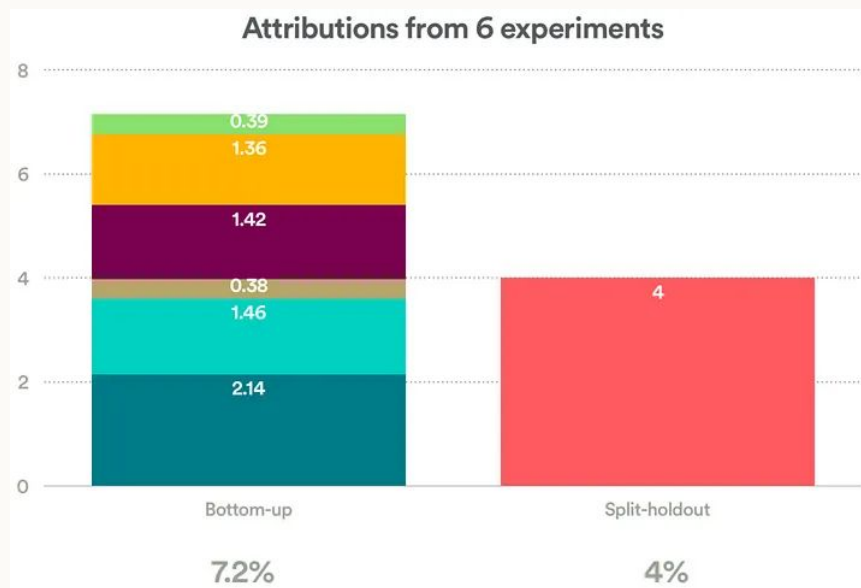
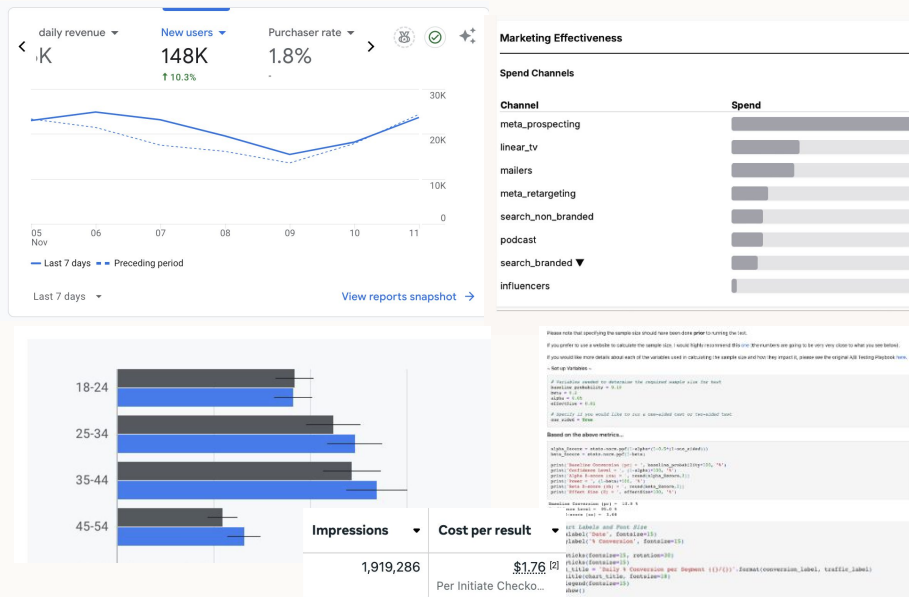
Test and learn across
Marketing, Product, AI

Real Business Metrics

Highly Trusted
Statistics

Learning Culture and Searching for Incrementality

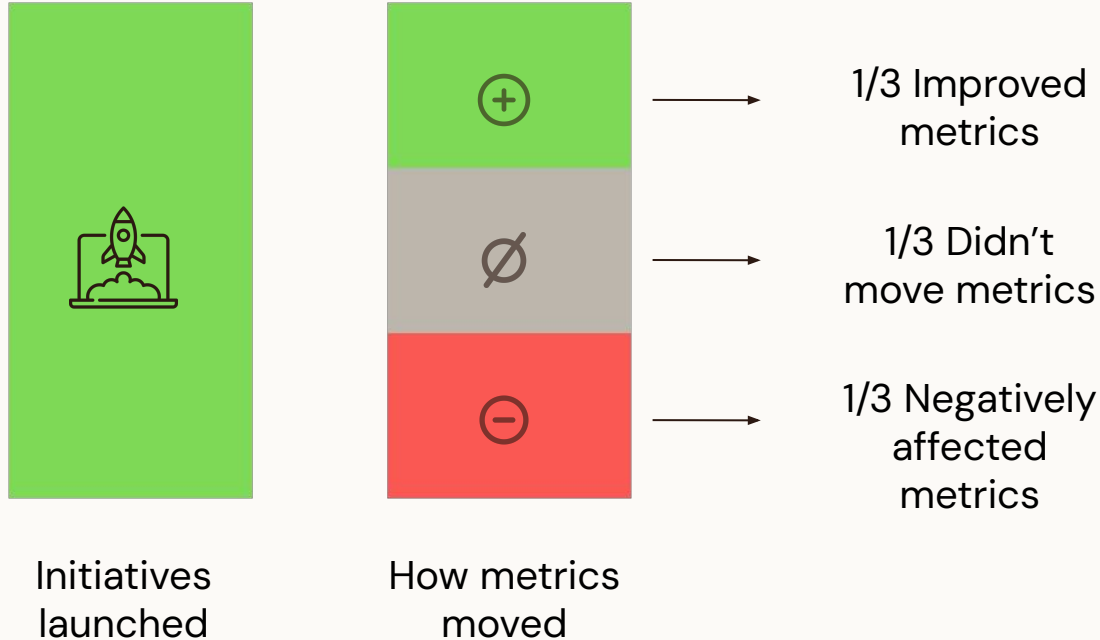
So much data, yet it never adds up



*Attribution, MMM, surveys,
in-platform data, custom analyses...*

But where's my revenue lift?

You never know what initiatives will drive impact across a business



You never know what initiatives will drive impact across a business

- What gets celebrated?
- What gets more investment?
- What institutional knowledge is built?

Experimentation means businesses celebrate, repeat, remember **the right actions**

Different experimentation methods drive marketing incrementality studies across channels

USER-LEVEL

MARKET-LEVEL

Web

Content, UX, LPs

Email, SMS, Push

Messaging, Timing,
Segments

CRM Advertising

Direct Mail, Custom
Audiences,
Retargeting

A/B Tests

Offline Media

Regional TV, Radio,
Out-Of-Home

Digital Media

YouTube, branded
search, TikTok, etc.

Geolift Tests

Within advertising, two key questions we ask: Where should I advertise and how much should I spend?

**Sit-back
Inventory**



**Branded
Search**



**New
Channels**



Let's say I want to test TikTok

- **My design:** I launch in **Chicago** and decide I'll "match markets" and pick **Milwaukee** to compare results to
- **This works!** US Midwest, similar climate, culture.... not bad
- **But:** Chicago is *much* larger, with a higher average household income, cost of living, larger cultural reach...
- The comparison might roughly work, but when you might be making \$1m++ decisions, **"rough" is not sufficient!** We need **trust**.

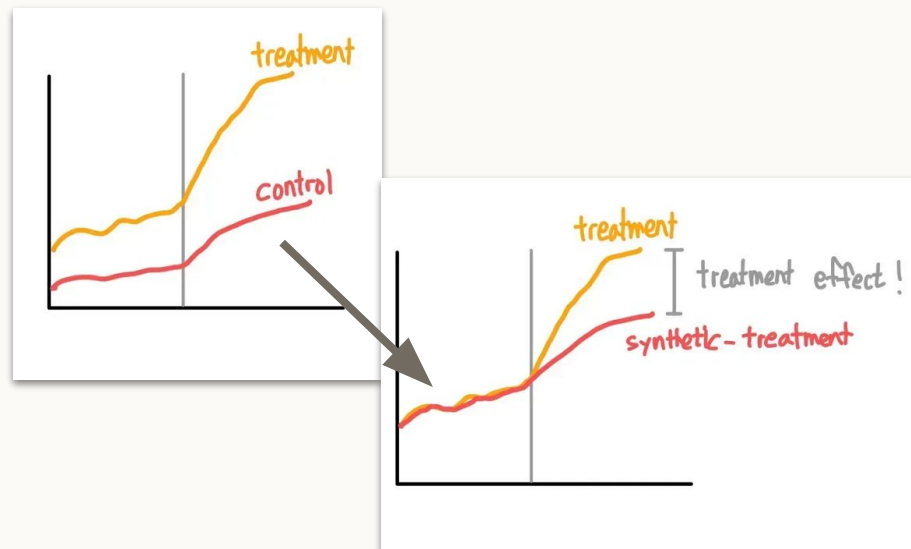


Geolift is a trusted method to identify differences in geographic behavior

Bayesian Synthetic Control Modeling

So, TikTok, in Chicago:

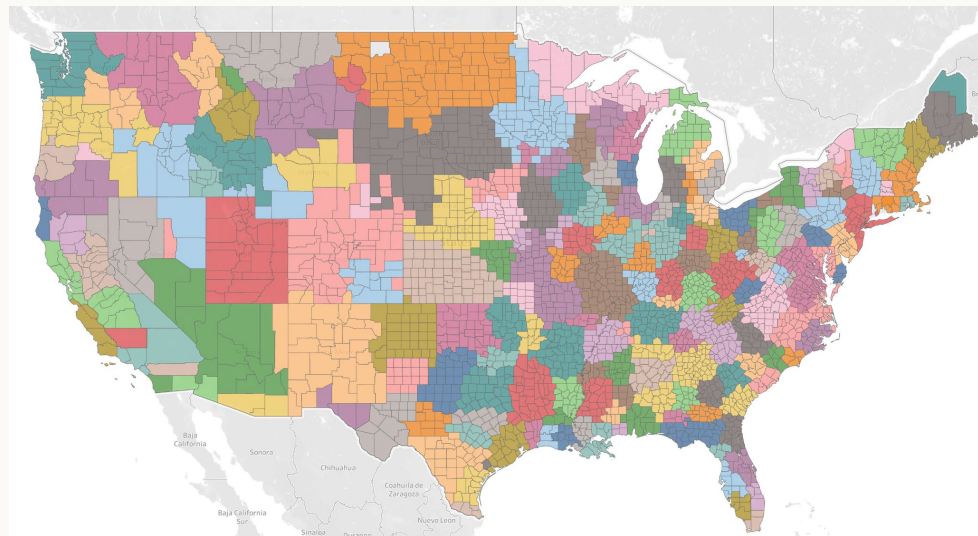
- You can't create a "**parallel universe Chicago**" where the ad didn't run.
- So we create a "**synthetic Chicago**" using data from multiple similar cities without the ad
- Compare sales in **real Chicago** to "**synthetic Chicago**" to see the ad's effect.



Trust means selecting the right regions for comparison

Identifying similar regions takes rigorous statistics but also an understanding of gotchas

- Weather patterns and events
- Idiosyncratic events (Super Bowl)
- Launches
- Regulatory changes
- Other tests



Trust means business metrics, not vendor events

Channel Metrics

- Clicks, Signups, “Conversions”
- Typically **10–20% inaccurate**
- Cannot capture data **outside of the session**

Business Metrics

- GMV, Activation, Purchases
- What the **CFO reads**
- From **processed, cleaned** sources
- Defined in **SQL**



databricks



Google
BigQuery

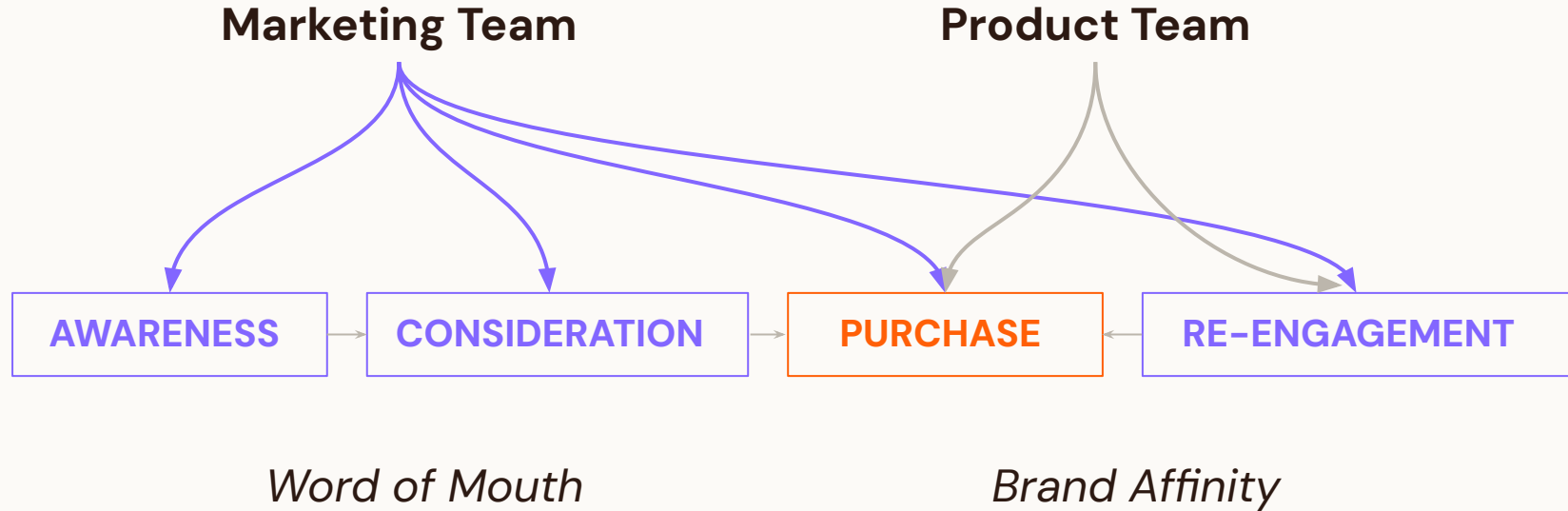


amazon
REDSHIFT



snowflake

Trust means a universal language and clarified contributions



Advertising incrementality done right unlocks trust throughout the organization

With the right:

1. Methods
2. Region selections
3. Metrics
4. Common language

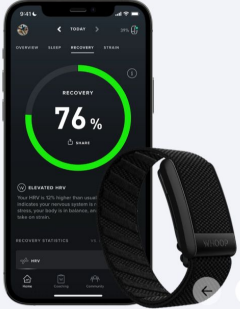
Fireside Chat 🔥

Whoop: a data-driven eCommerce advertiser

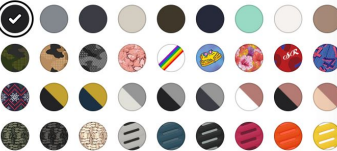
W 1 2 3 US

Join WHOOP



\$0 to begin | WHOOP 4.0 Included



Choose a WHOOP 4.0 Band
ONYX INCLUDED



Add Personalized Engraving \$25




SIGN UP HERE

Our best deal is almost here

We'll let you know when it launches


This holiday, give the gift of WHOOP [Gift now](#)

WHOOP




The wearable for every moment

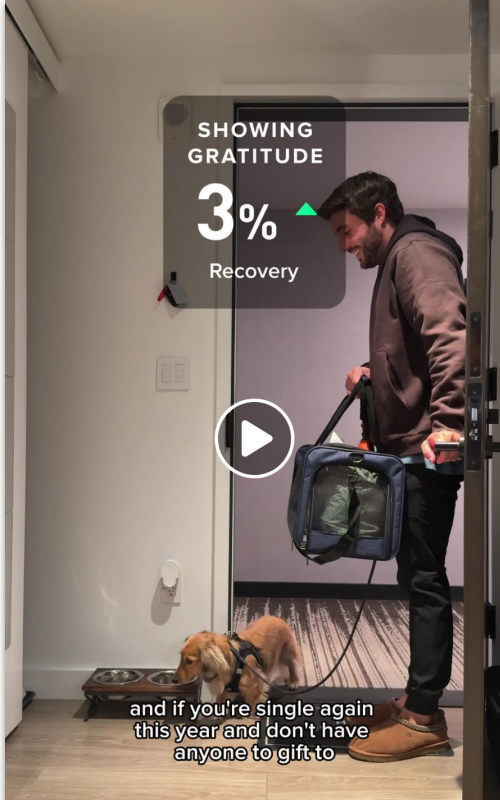
JOIN NOW



SHOWING GRATITUDE

3% 

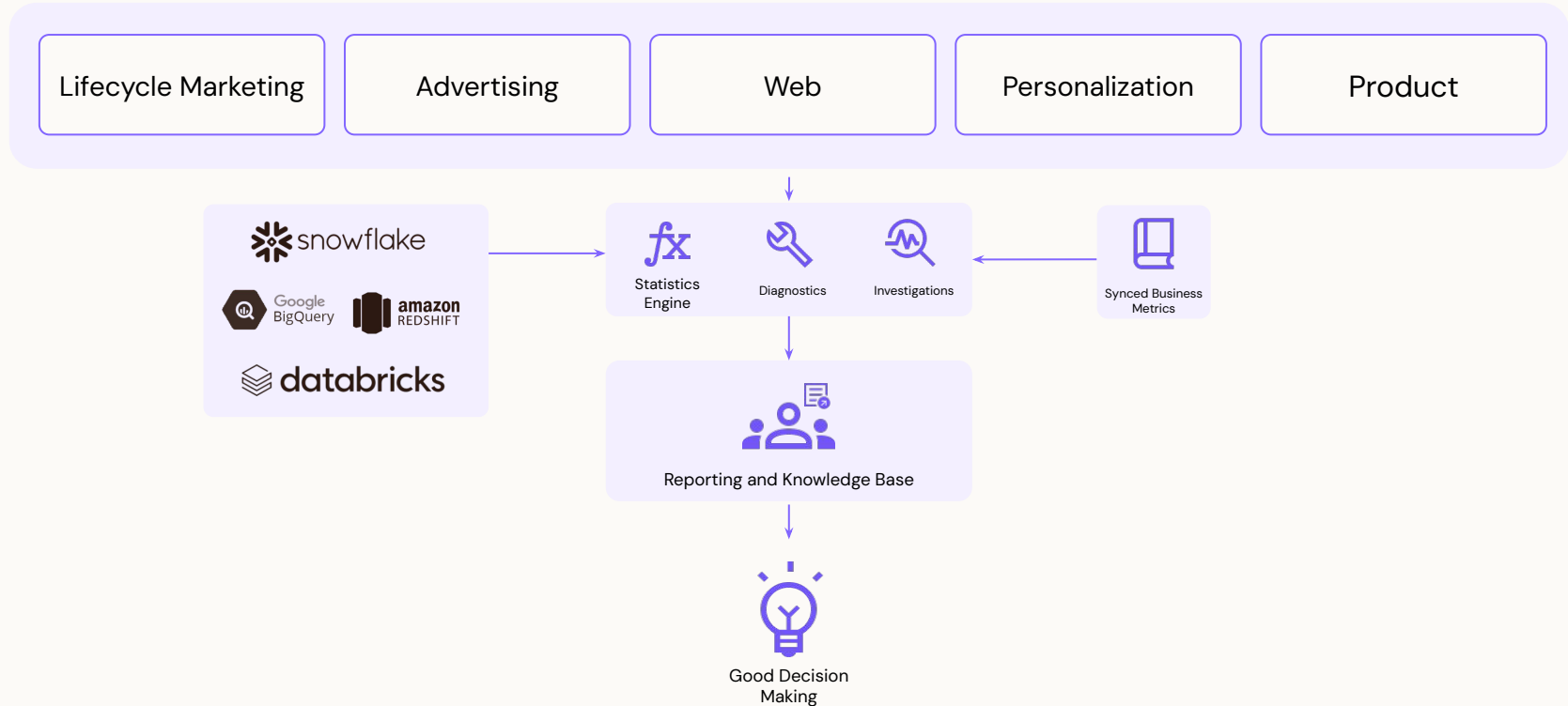
Recovery



and if you're single again this year and don't have anyone to gift to

Launching Eppo Geolift

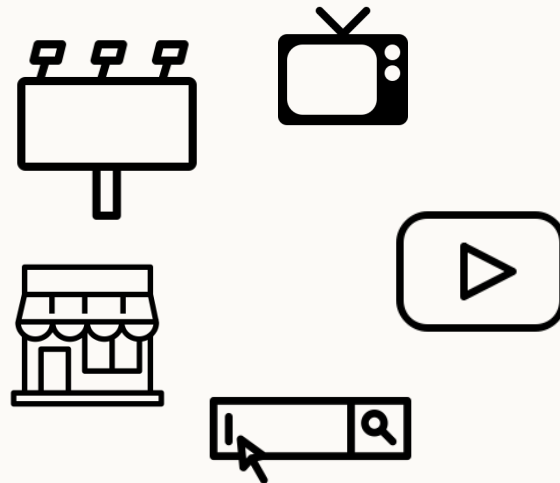
Unifying channels under business-centric experimentation



Geolift identifies the real contribution of everything from top-of-funnel to direct response

Business Questions

- Existing channel incrementality
- Optimal budget level
- New channel evaluation
- Online impact on offline sales



Eppo's approach to incrementality

Always-On Geolift

Automated testing, monitoring and analysis for major digital platforms.

**Simple/Powerful
Custom Geolift**

Smart designs make it easy to find signal in the noise; protocols standardize metrics and best practices.

Real Business Metrics

Measure campaigns on **the same metrics the CFO** uses via your data warehouse.

We *literally* use your data



Data Warehouse



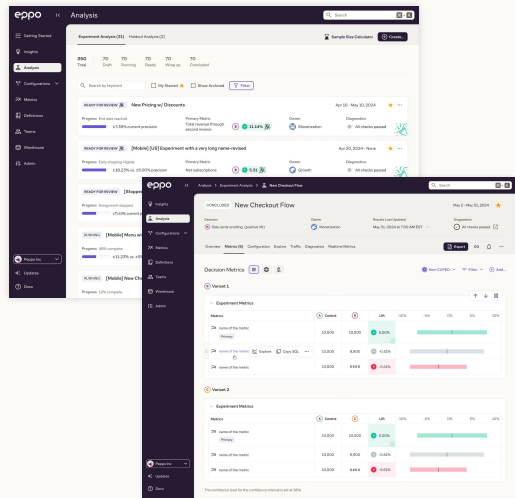
Metrics

```
SELECT
  user_id
  , timestamp
  , cost
FROM orders
WHERE status = 'purchased'
```



Slice-and-dice Dimensions

```
SELECT
  user_id
  , persona
  , marketing_channel
FROM users
```



We compute using your warehouse. **Your data never leaves your ecosystem.**

Metrics and dimensions are configured via SQL for maximum flexibility.

World class analysis, reporting, causal inference, and health checks.

Eppo Geolift

Core Test Features:

- ✓ Experiment Design including:
 - ✓ Region similarity analysis and power analysis
 - ✓ Test/control region selection
 - ✓ Region inclusion/exclusions
- ✓ State, DMA, Commuting Zone, and Non-Geographic Units
- ✓ Budget saturation
- ✓ PhD-level statistical support

Summary

Analysis Last Updated	September 2, 2024
Analysis Start	July 15, 2024
Analysis End	August 21, 2024
Intervention Start	July 15, 2024
Intervention End	August 21, 2024

Overview

Scale 2x

Incremental Purchases

3,250

2,348 - 4,158 @ 95% confidence

Incremental Lift ⓘ

35%

32.53 - 38.86%

\$ Per Incremental Purchase ⓘ

\$36.80

\$32.30 - 43.80

Scale 3x

Incremental Purchases

4,976

▲ vs Scale 2x

4,585 - 6,158 @ 95% confidence

Incremental Lift ⓘ

28%

▼ 7% vs Scale 2x

25.53 - 32.91%

\$ Per Incremental Purchase ⓘ

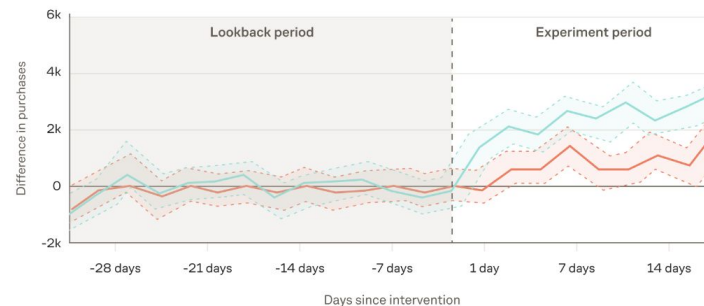
\$46.23

▲ \$9.43 vs Scale 2x

\$41.86 - 58.28

Difference in Purchases Observed compared to Synthetic Control

✓ Difference between Scale 2x and [synthetic control](#) ✓ Difference between Scale 3x and [synthetic control](#)



Eppo's Unique Value Proposition

Alignment at the data and metric level means tests become universally valid throughout the organization

Warehouse-native architecture means data integrity and clarity; no onboarding for Eppo customers

Cutting-edge statistics for test planning and analysis

Single platform for product, CRM, and advertising needs

Q&A

**Get your personalized walk-through of
Geolift:
geteppo.com/get-access**

Appendix

Eppo's Bayesian Synthetic Control Methodology

Learning relationships between units *before* treatment to provide counterfactual scenarios that estimate causal effects

Test Setup

- Eppo allows unit inclusion/exclusions
- Eppo allows 2- and 3-cell test designs.

Power Analysis

- Eppo provides a list of regions to the user, and can refresh the modeling process if the included regions needs to change or the KPI is not suitable
- Simulate confidence intervals of the Primary KPI to gut-check priors for treatment performance
 - a. For example, if prior research efforts find a 5% lift in sales, we'd check that the CIs would be capable of displaying that lift

Analyzing experiment results

Eppo's method can be analogized to an improved [CausalImpact](#). For every treated unit, we have a constant baseline level of the metric being modeled as an intercept. We filter out low-signal small control units, then create synthetic controls based on the the remaining units. For advertising, we then model the ad-effectiveness for each treated unit using a hierarchical model, which includes adstock effects (ad decay) and saturation (or reach) functions.

Results

Once the test is implemented, Eppo will provide interim and final results.