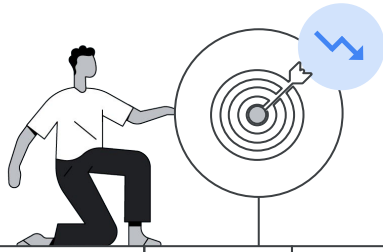


# Incrementality experiments for Search unfolded

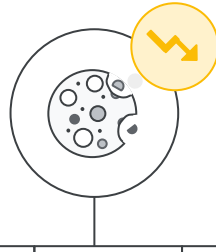
*Ana Carreira Vidal*  
*RPL Media Effectiveness EMEA*





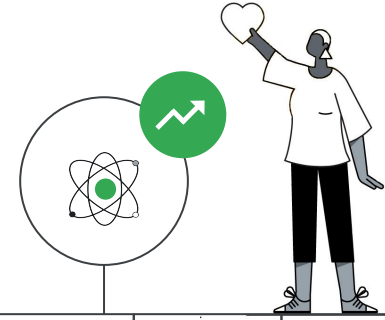
### Economic uncertainty

is increasing the pressure to prove the value of marketing investments



### Privacy regulations and tech changes

are driving restrictions in user-level tracking



Marketers and industry are exploring **new ways to prove the ROI** of marketing investments



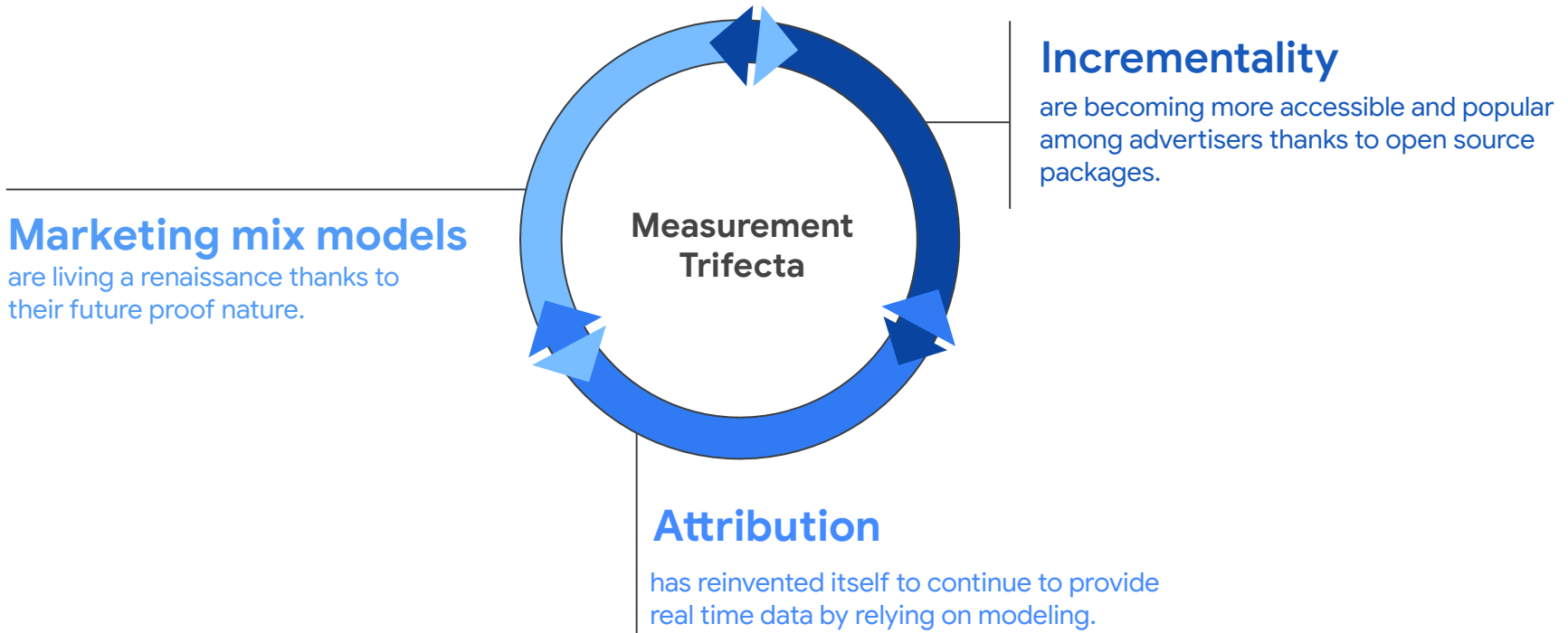
**What is the full impact**  
of my media  
investments?

**Prove**



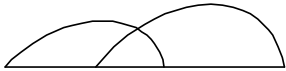
How can I best **optimize**  
my media investments?

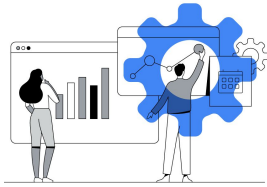
**Improve**





No tool has all the answers anymore,  
you will need a combined approach that leverages  
their strengths and covers each other gaps





Optimize at channel  
and campaign level  
with  
**Attribution**



Prove the channel  
value with  
**Incrementality**



Plan cross-channel  
budgets with  
**MMM**

Let's get on the same page  
with incrementality



### Incrementality Experiments

**Focus:** Absolute Performance

Treatment  
(see ads)

Control  
(don't see ads)



Incremental sales

### Optimisation Experiments

**Focus:** Relative Performance

Treatment  
(sees ad variation)

Control  
(sees ad)

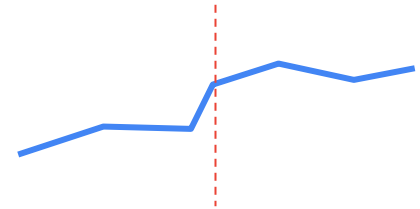


Additional attributed sales

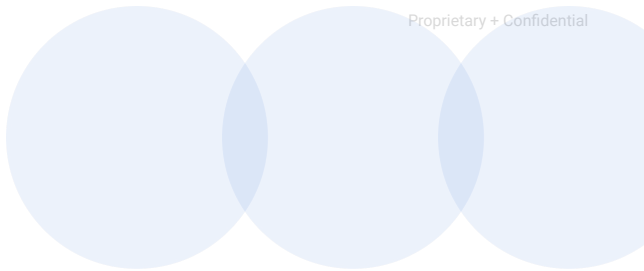
### Pre Post Analysis

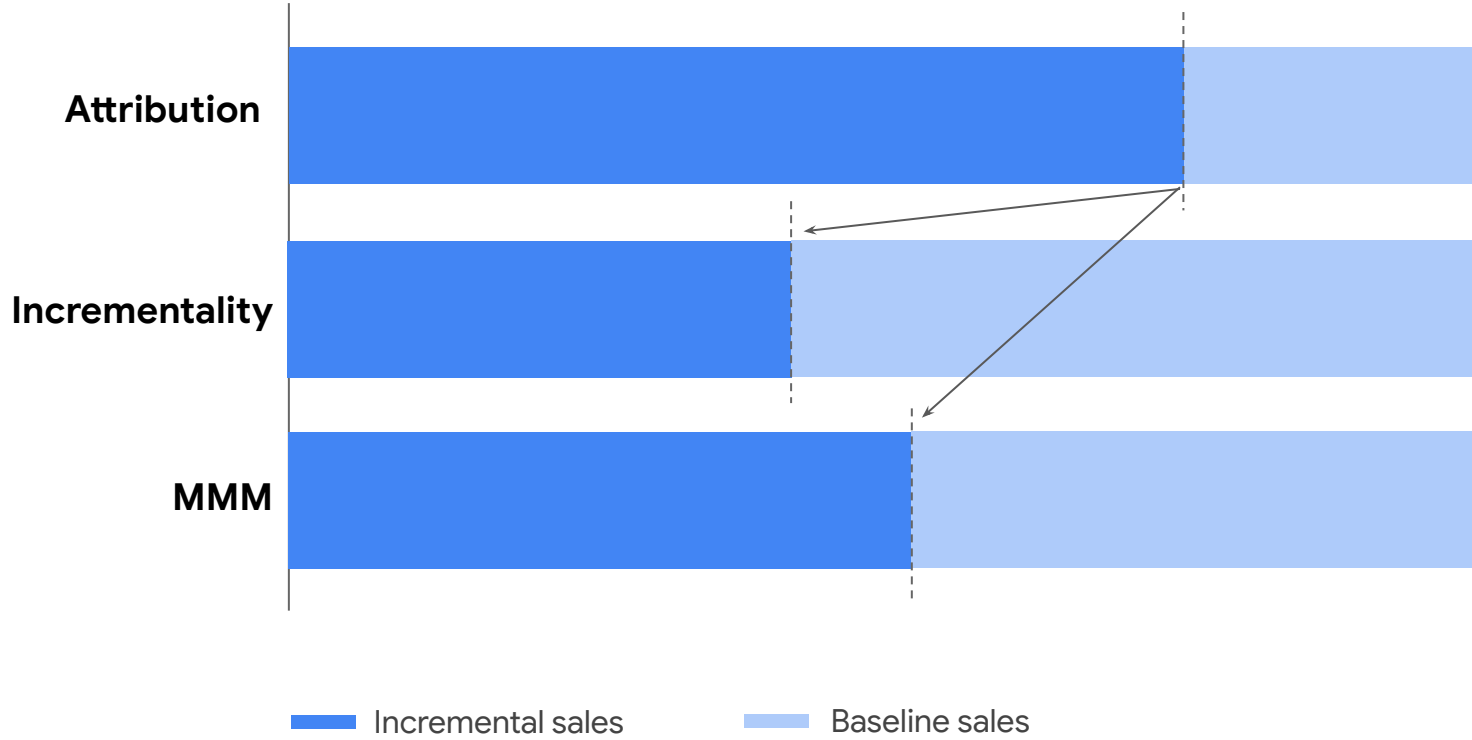
**Focus:** Relative or Absolute Performance

Pre Intervention Post





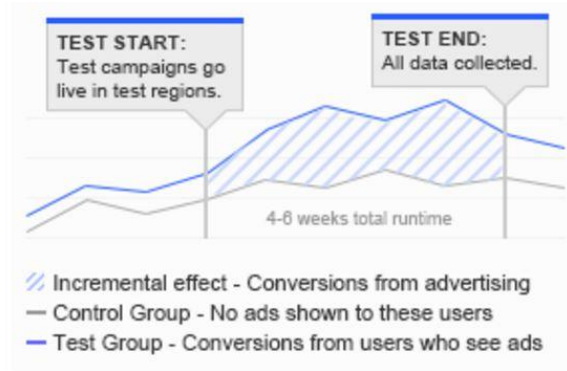
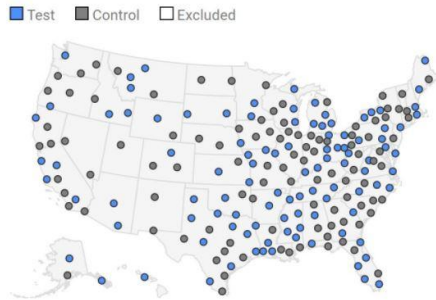




# How can you run incrementality experiments for Search



# Geo experiments



By separating countries into treatment and control we can attribute any uplift in success metrics between the groups exclusively to the advertising spend (see shaded blue regions in graphic).

# Geo Experiment methodologies



## Time Based Regression

*Open source code*

Estimates the iROAS by predicting counterfactuals

## Trimmed Match

*Open source code*

No modeling, directly compares the observed iROAS1 within each pair and trims poorly-matched geos. Most robust against outliers.

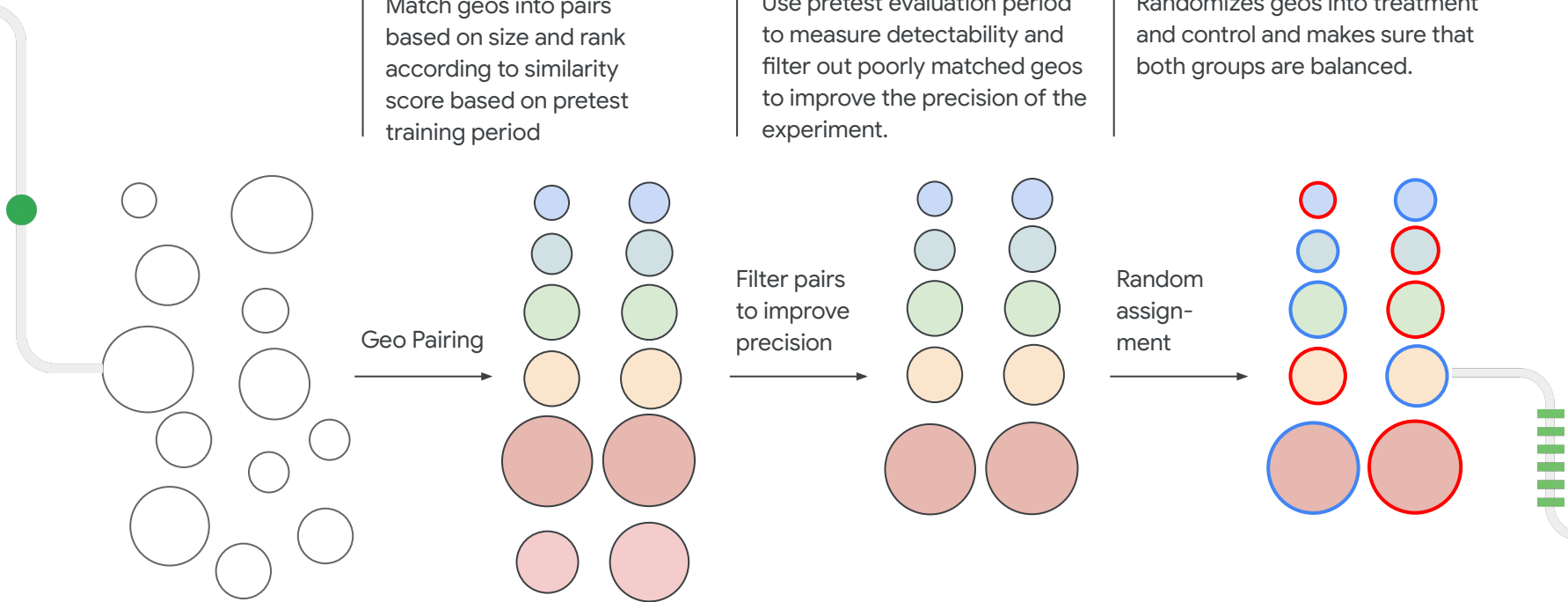


# Trimmed Match is our most-advanced methodology

Match geos into pairs based on size and rank according to similarity score based on pretest training period

Use pretest evaluation period to measure detectability and filter out poorly matched geos to improve the precision of the experiment.

Randomizes geos into treatment and control and makes sure that both groups are balanced.



# Use cases for incrementality experiments for Search



# 1



## Goal: Better planning

**Run an incrementality experiments for all your key channels, including Search, to enrich the picture from your attribution outputs (no MMM)**

→ **Great fit!**



# 1

*Example*

**Step 1.** Run experiments to create an informed iROAS per strategy type

	April ROAS Attribution	April iROAS Geo Experiment
Search	\$5	\$3.5
Channel 1	\$5.5	\$3
Channel 2	\$8	\$12

# 1

Example

**Step 1.** Run experiments to create an informed iROAS per strategy type

	April ROAS Attribution	April iROAS Geo Experiment
Search	\$5	\$3.5
Channel 1	\$5.5	\$3
Channel 2	\$8	\$12

**Step 2.** Calculate calibration multiplier

Calibration Multiplier	
0.7	= 3.5 ÷ 5
0.54	= 3 ÷ 5.5
1.5	= 12 ÷ 8

Calibration Multiplier = Incremental Impact ÷ Attributed Impact

# 1

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**Step 3.** Use multiplier to evaluate periods between experiments

iROAS Goal	Q2 ROAS Attribution	Q2 Estimated iROAS
\$3	\$4.5	\$3.1
\$3	\$5	\$2.7
\$8	\$7.5	\$11.25

Calibration Multiplier = Incremental Impact ÷ Attributed Impact

# 1

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Calibration Multiplier = Incremental Impact ÷ Attributed Impact

# 1



## Important considerations:

- If you test Search alone you won't know if that incremental lift is good or bad.
- You need to test incrementality for every channel and / or have guidelines on what to do with missing data.
- You need to have a incrementality based KPIs set already (either from previous experiments, MMM, or heuristics aligned with business goals).
- Include guardrails for drastic discrepancies.

# 2



**Goal: Optimization**

**Use the results from the incrementality experiments to adjust bidding targets**

→ **Caution**

# 2

Example

**Step 1:** Compare efficiency target to in-platform & Experiment results

	ROAS Attribution	iROAS Geo Experiment
Search	\$7.5 ROAS	\$5.25 iROAS

# 2

Example

**Step 1:** Compare efficiency target to in-platform & Experiment results

	ROAS Attribution	iROAS Geo Experiment
Search	\$7.5 ROAS	\$5.25 iROAS

**Step 2:** Calculate multiplier

Calibration multiplier
0.7 = 5.25 ÷ 7.5



# 2

Example

**Step 1:** Compare efficiency target to in-platform & Experiment results

	ROAS Attribution	iROAS Geo Experiment
Search	\$7.5 ROAS	\$5.25 iROAS

**Step 2:** Calculate multiplier

Calibration multiplier
0.7 = $5.25 \div 7.5$

**Step 3:** Adjust bids

Original tROAS In Platform (Google Ads)	New tROAS In Platform (Google Ads)
\$7.5 tROAS	\$10.7 tROAS = $7.5 / 0.7$

Adjusted bids = Platform target ÷ Calibration multiplier

# 2



## Why should you be cautious?

- We don't know how changing bids will affect performance.
- When budget uncapped, changing bids might prevent you from reaching volume goals. Balance efficiency and volume.
- Adjust in small increments.
- Use only when combined with an overview of the incrementality driven by the overall portfolio. Is Search delivering more or less incrementality than expected compared with other channels?

# 3

## Goal: Optimization

**Understand which campaigns / tactics within Search are more incremental (e.g. brand vs generic)**

→ **Caution:** Geo experiments are great at providing rigorous results but they require big volumes of data. This means that experiment designs with several experimental cells or for smaller slices of a channel are unlikely to yield feasible designs.

# 4

## Goal: Optimization

**You want to understand what is the baseline incrementality for your Search campaigns today and test whether it improves over time**

→ **Good fit when combined with a test and learn agenda:** In this case, the comparison point will be the previous test you have run. This setup will allow you to track that the optimization changes you are making are driving more incremental sales instead of driving more conversions that would have happened anyway. Optimizations that are likely to increase incrementality are switching to DDA based bidding and VBB.

# Last remarks



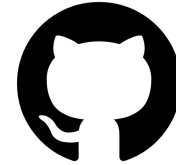
# Useful resources to get started



Think with **Google**

[Understanding incrementality experiments](#)

[A media effectiveness guide for CMOs \(and CFOs\)](#)



[A Time-Based Regression Matched Markets Approach for Designing Geo Experiments](#)

[Trimmed Match Geo Experiments](#)

## Incrementality experiments for Search are...

Best at measuring the sales that were directly caused by exposure to the ad

Likely going to show less incremental sales than attributed sales, and that's ok

A great tool for planning budgets when used in all channels

A good optimization tool when used consistently over time within a test & learn agenda