

jampp

BOOSTING MOBILE SALES

Quick intro to Jampp



We help advertisers boost their mobile sales

jampp

BACKGROUND

About us

Jampp is a performance marketing platform for acquiring and engaging mobile customers. The company combines behavioral data with predictive and programmatic technology to generate revenue for advertisers by showing personal, relevant ads that inspire consumers to purchase for the first time, or more often.

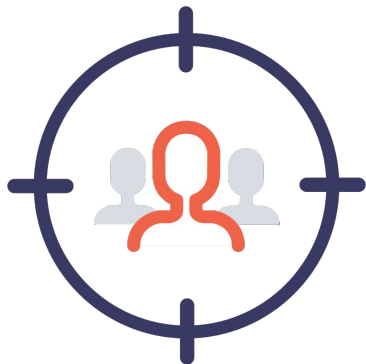
Founded in 2013, our team serves a global client base from offices in San Francisco, London, Berlin, São Paulo, Singapore, Cape Town and, of course, our sunny home, Buenos Aires.



Real time bidding

Introduction

Jampp is a **mobile app** marketing platform that uses **programmatic ads** to:



User Acquisition

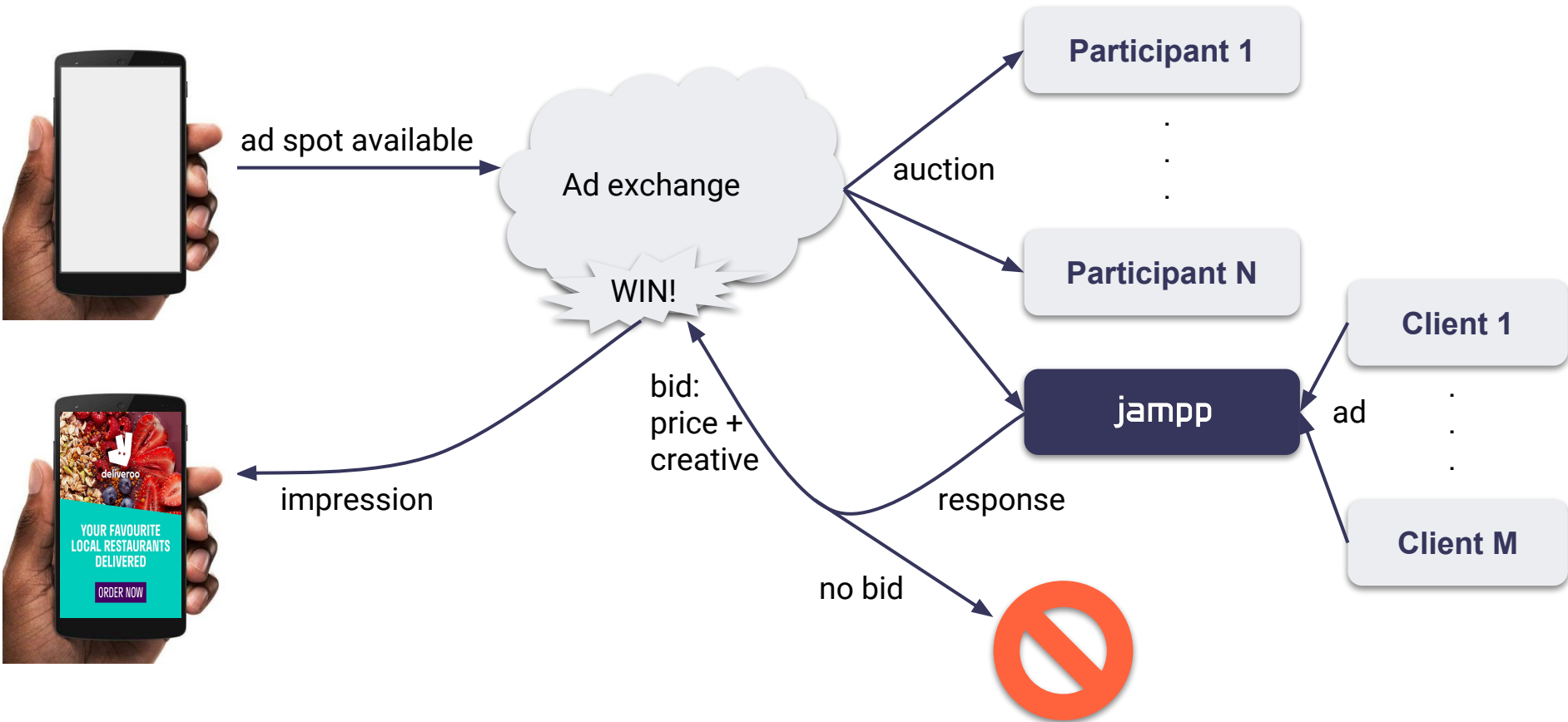
Get new potential customers to install your app



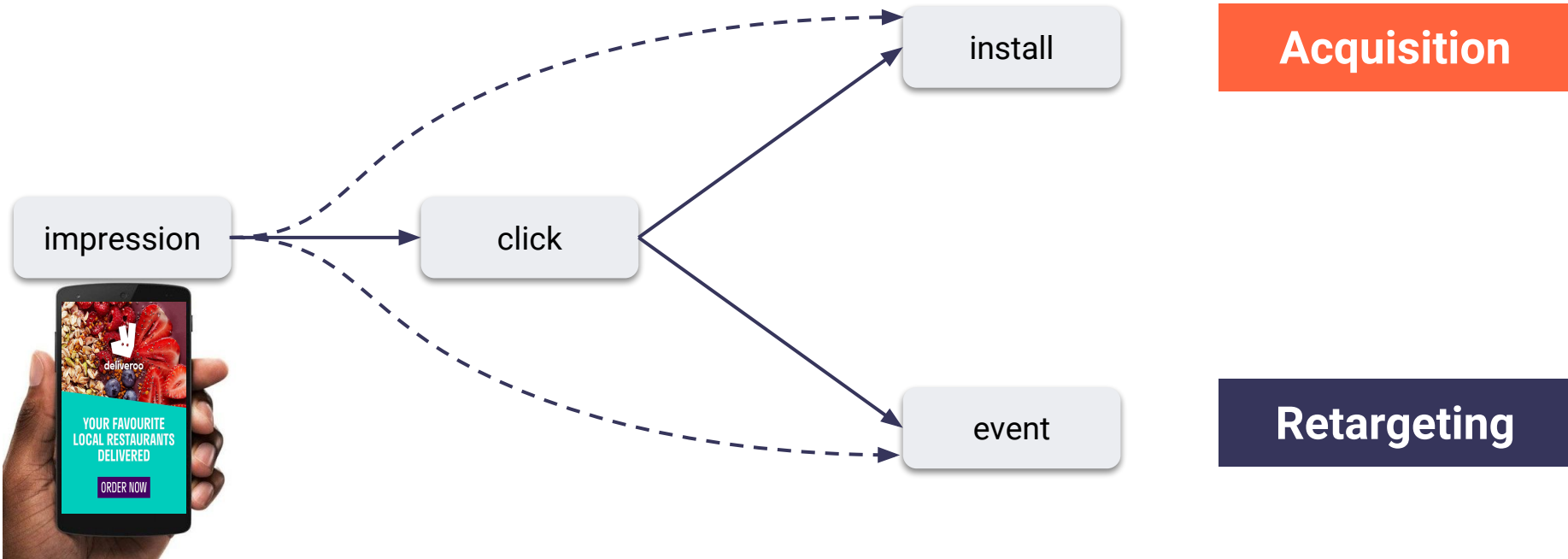
Retargeting

Encourage first-time purchases or repeat purchases

Introduction to real-time bidding (RTB)



Transaction lifecycle: possibilities after impression



The big picture

Advertisers



Jampp



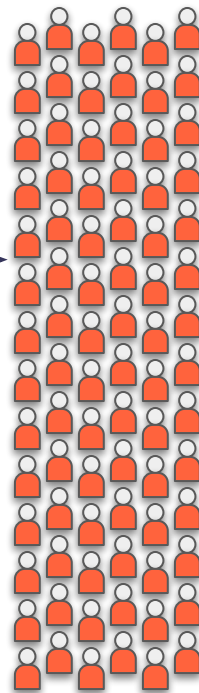
Ad exchanges



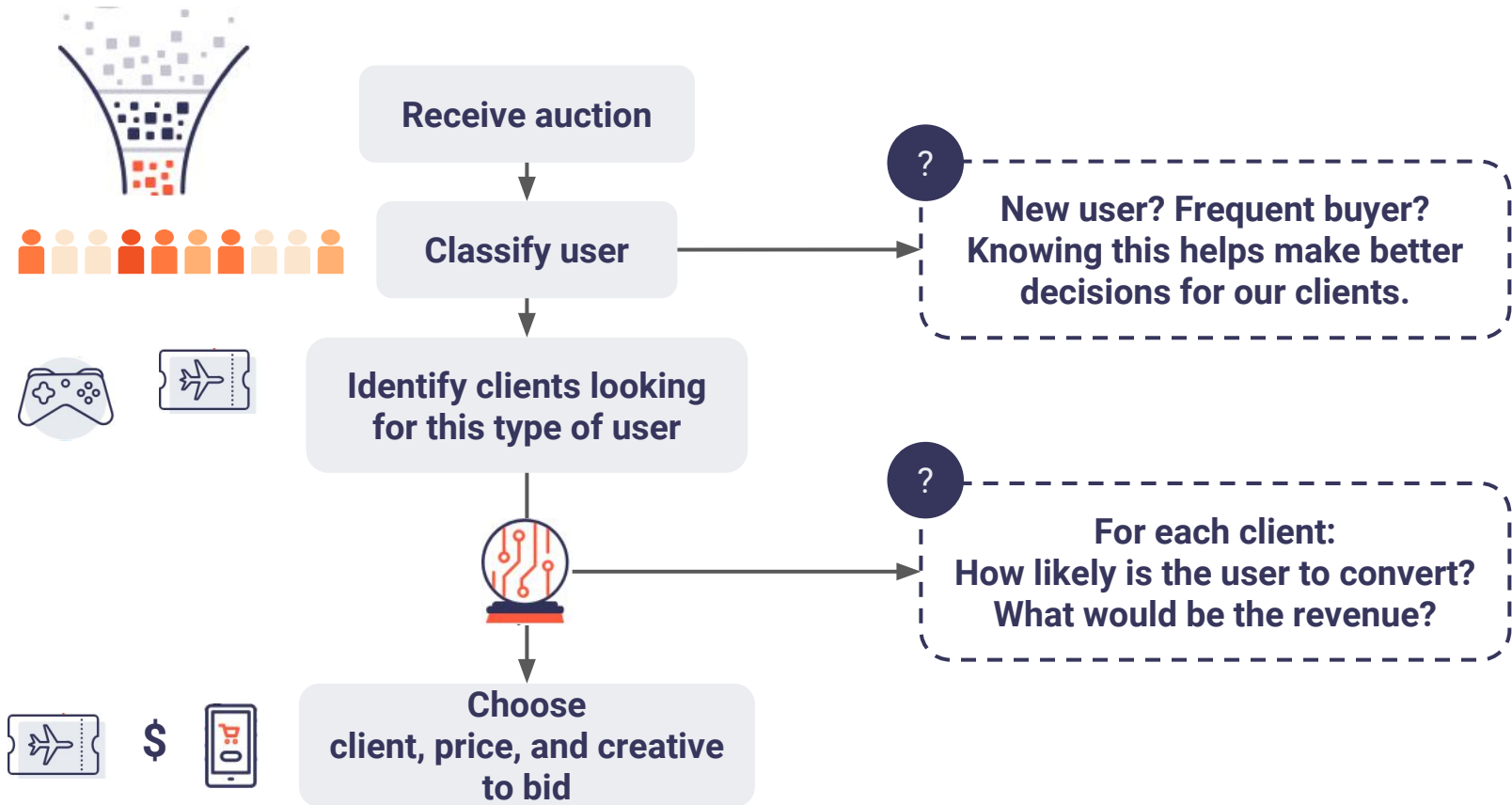
Publishers



Audience



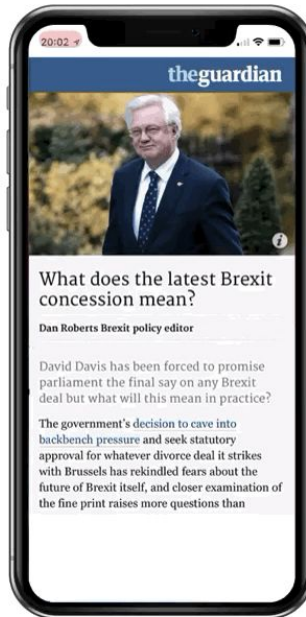
Jampp's perspective: Receiving auction to bidding



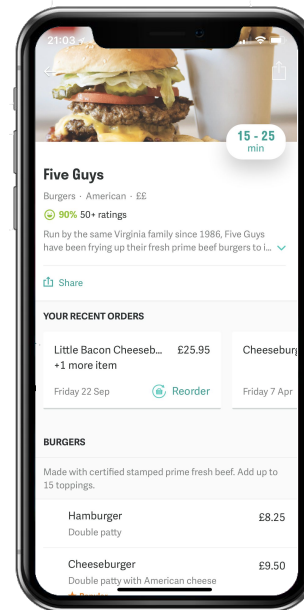
Customer's perspective: Relevant and seamless



Users get to a product page but then **leave the app before completing a purchase.**



While using another app, they see a custom ad displaying **the product they saw last.**



When they click on the ad, they are **deep-linked** straight into the app, **right where they left off.**

Technology stats

100% Programmatic

We process

100+ TB

of data per day

(25,000,000 mp3 or
100,000 episodes of
Game Of Thrones)

20+ billion

in-app events
per month

700,000+

auctions per second

500+

servers analyzing
bids simultaneously

Technological challenges of programmatic bidding

Speed

Must reply in **under 70ms**.
The ML systems in place must have very fast computation times.

Scalability

We participate in **700K+ auctions** per second, so all systems must work at scale.

Coordination

We coordinate the interaction of distributed systems, both online and offline.

Constant up-time

Our systems are spending money **24/7/365** days a year.

Risk of overspending

You *really* don't want your automated systems making bad decisions.

Rapidly changing data

The underlying distributions continuously shift so we must keep **estimators up-to-date**.

Data Landscape

TRANSACTIONAL

Generated from RTB landscape and transactions.

- Lots of data
- Market-related
- Fast-changing distribution
- Contextual

ORGANIC

Generated by user behavior inside apps.

- Less data
- Behavioral, app, and UX related
- Slow-changing distribution

EXTERNAL

Data that does not fall into the other two groups.

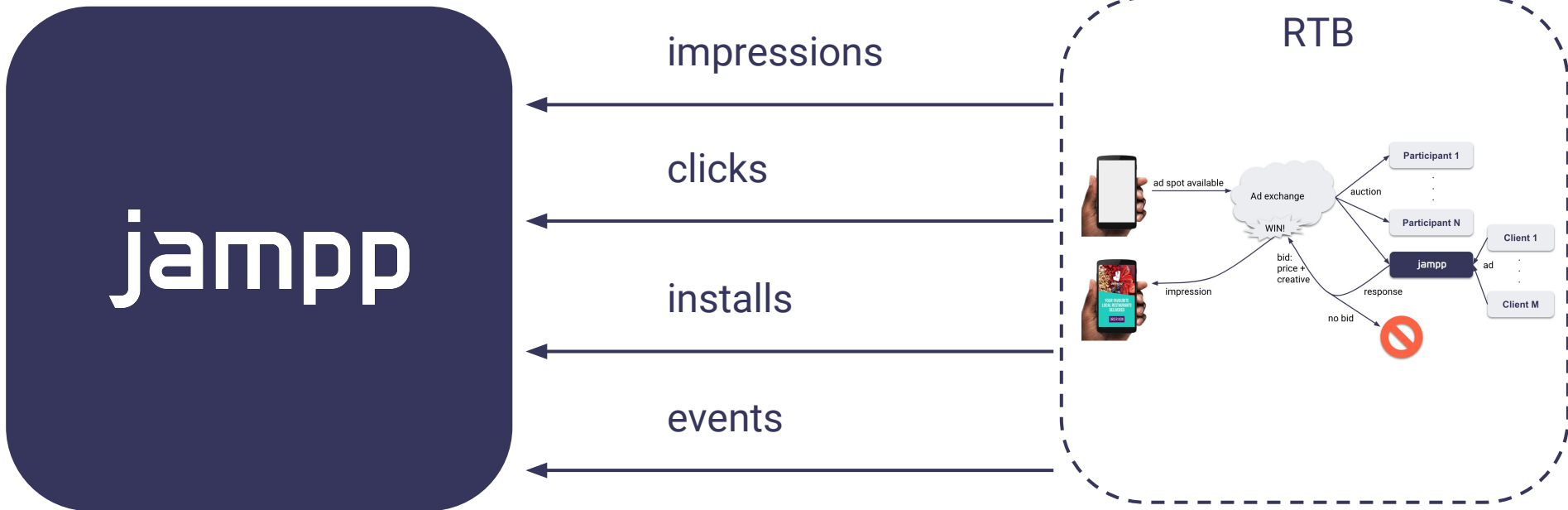
- Unstandardized format
- Shared with us in different ways
- Slow-changing distribution

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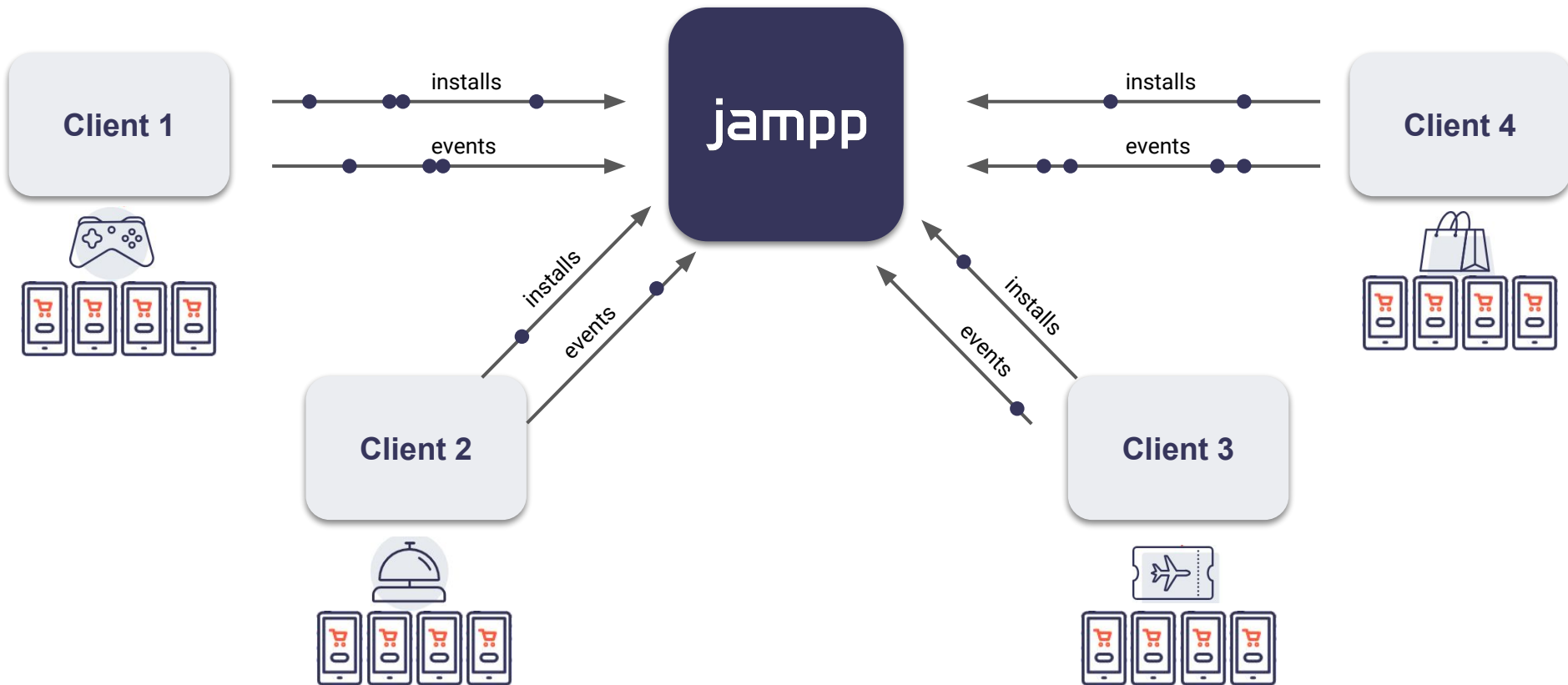
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Organic data is generated by user behavior in our clients' apps



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Solution Overview



PREDICTIVE SEGMENTS

Mixes contextual and behavioral data to **predict conversion probabilities** and group users based on these predictions.



LOOKALIKE SEGMENTS

Use in-app event data to train a *supervised* model to identify users who perform behavior X.

Use **trained model as a distance metric to generate “lookalike” segments.**



BEHAVIORAL CLUSTERS

Use in-app event data and transactional data to train an *unsupervised* model **which returns clusters of users.**

The clusters may be used by the account managers to target similar groups of users.

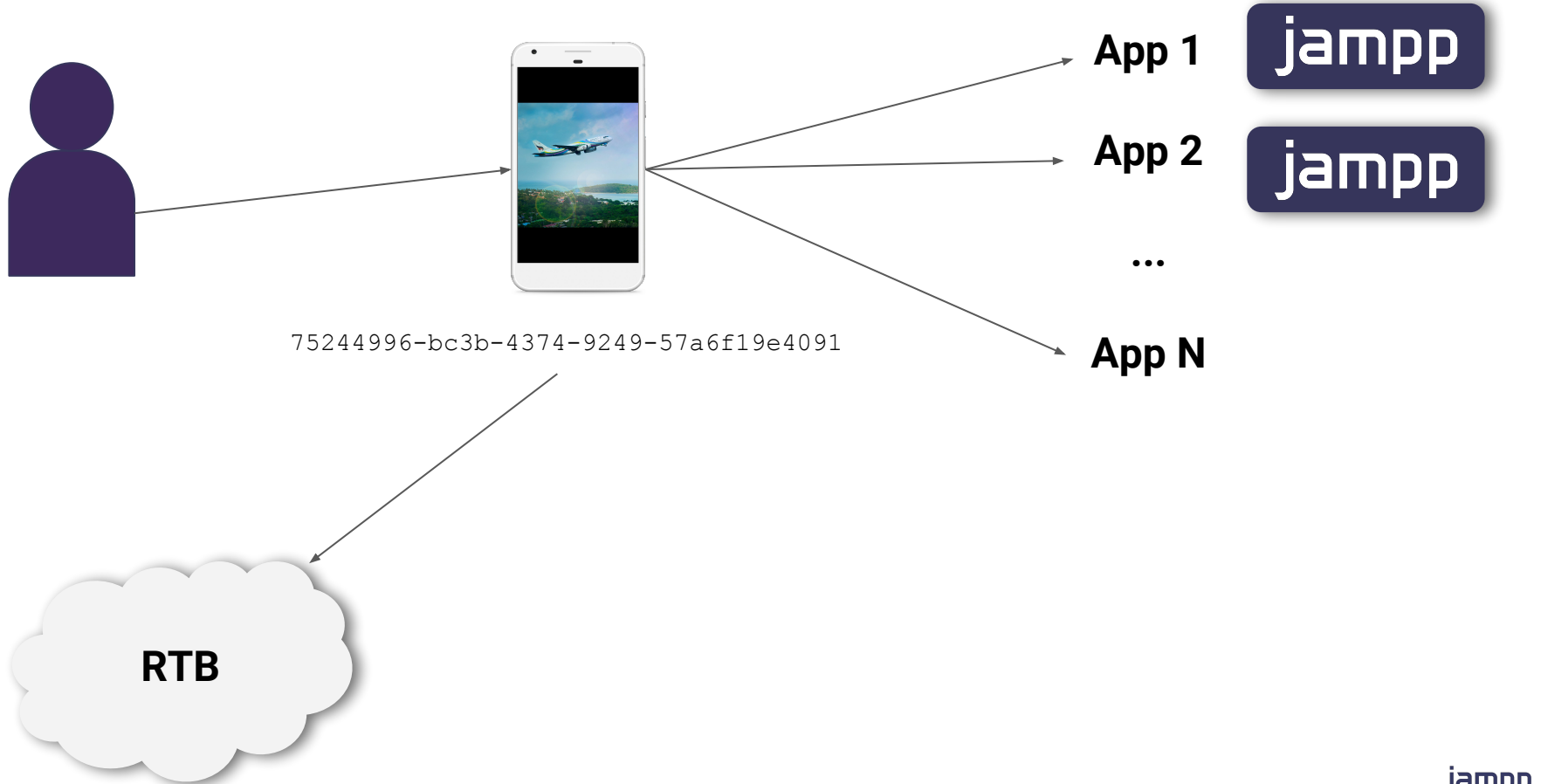


Challenge 7506

Problema

- Evitar saturar usuarios
- Saber **cuándo** apostar por un usuario
- Saber cuándo **vamos a poder** apostar por un usuario

Problema



Tiempo hasta aparición



Tiempo hasta nueva conversión



Datos

- Datos de subastas RTB
- Instalaciones de aplicaciones
- Clicks de publicidades mostradas
- Eventos dentro de aplicaciones

Nota: los datos están anonimizados

Salida esperada

- $St(d)$ el tiempo hasta que un dispositivo d aparezca de vuelta en una subasta RTB
- $Sc(d)$ el tiempo hasta que un dispositivo d convierta

Se toma un máximo de 3 días como ventana de espera

Survival analysis

Conjunto de técnicas para analizar datos donde la variable objetivo es el tiempo hasta que ocurra un evento de interés.



Gracias! Preguntas?

