



## Today's Agenda



#### Intro

Matt Green (WFA) to update on progress with Halo.





#### **Progress to Launch**

<u>Chloe Dennis (Origin)</u> and <u>Martin Lawson (Origin)</u> to provide an update on UK progress towards now imminent Beta trials of Origin (based on the Halo Framework).



#### 'Hello Halo' - Chat with Sorin Patillinet (MARS)

<u>Sorin (MARS)</u> talks about this journey with Halo and his outlook for cross media measurement and the importance of Halo for advertisers



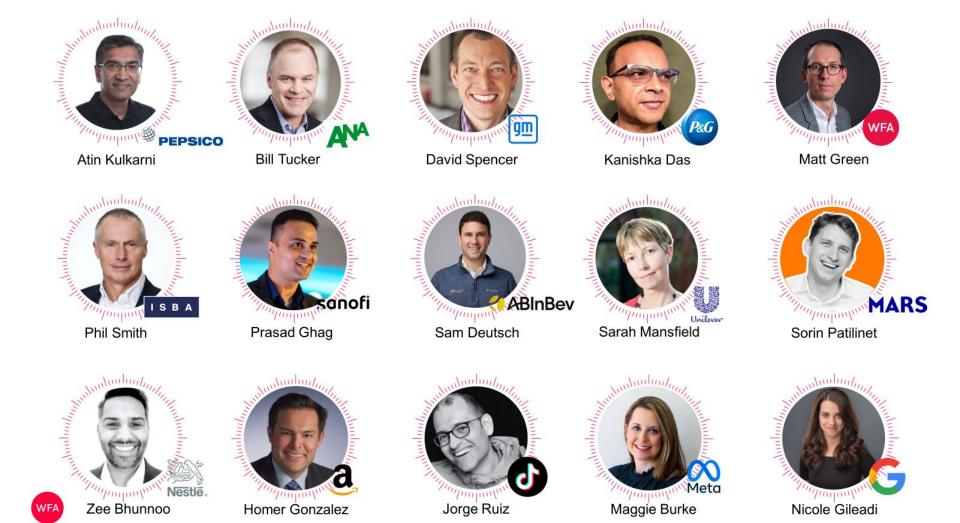
#### 'Get the Tech' - Virtual Persons Framework

<u>Craig Wright (Google)</u> to provide a focused explanation of how the Virtual Persons Framework (also known Virtual ID or VID) works.









### Halo on Stage (March)

## egta Market Intel Meeting (MIM) March 12 2024. Madrid



Union des Marques (FR) / CESP Groupe de réflexion cross-media March 21 2024, Paris



## POR (Poland) JIC Meeting March 19 2024. Warsaw



IAB TechLab

Privacy & Addressability Conf
March 29 2024. New York









## WFA Global Marketer Week 2024 May 14-17 2024. Toronto

Global Marketer Week 2024 Global marketing's **True North** Register as WFA member







## Register for the next Townhall - 5 June 2024

## Register here: https://wfanet.org/events/item/3986/halo-community-townhall-meeting







## "Progress to Launch"







# Origin

Beta Trials – Update April 2024

## Agenda:

- 1. Beta Trials approach and plan
- 2. Approach to testing
- 3. Help and Support



### The Beta Trial will give access to real data for the first time



### Over 50 funding stakeholders involved in building Origin



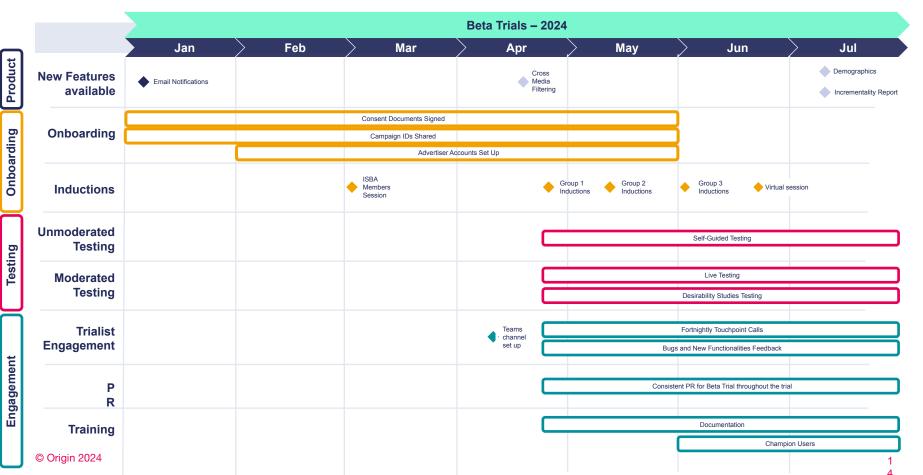




## Beta Trials: Approach & Plan

### **Beta Trials Timeline**







## **Approach to Testing**

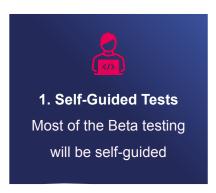
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## 3 types of test will take place during the trial

The Beta Trial will consist of three types of test

Most tests will be self-guided. Trialists will be alerted via email that a new test is available for them







## **Key Research Questions**



#### 1. Current Ways Of Working

#### **Example Question:**

Please spend 1-2 minutes talking through how you would currently analyse a campaign's performance. You can make reference to the tools you use, what data is most relevant to you, etc. [Verbal response]

#### 2. Specific UI or Feature

#### **Example Question:**

How satisfied are you with the options and layout of the "Select media types" page. Please explain your response out loud and, if applicable, how you would improve the page. [5-point Rating scale: Not at all satisfied to Very

#### 3. End to End Experience

#### **Example Question:**

How would you rate your experience of creating a report through Origin? Please explain out loud. [5-point Rating scale: Poor to Excellent]

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## Help & Support

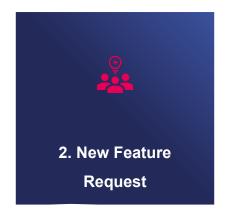
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## **Product Feedback Lifecycle**













## "Hello Halo"



### **Hello Halo!**



Leader of Mars's Global Marketing Effectiveness team, I play at the intersection of famous global brands and cutting-edge market insights solutions.

His team's mission is to mix sciences with new tech, uncovering the drivers of human and pet behaviors for brand growth.

He has been pivotal in building Mars's marketing effectiveness culture, earning industry-wide acclaim. As an internal advisor to the C-Suite, he thrives on building insight systems to enable better brand decisions.

Senior Director Global Marketing Effectiveness



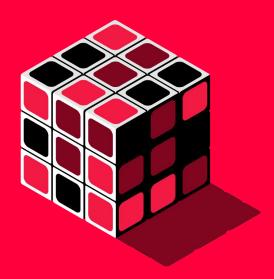








## "Get the Tech"







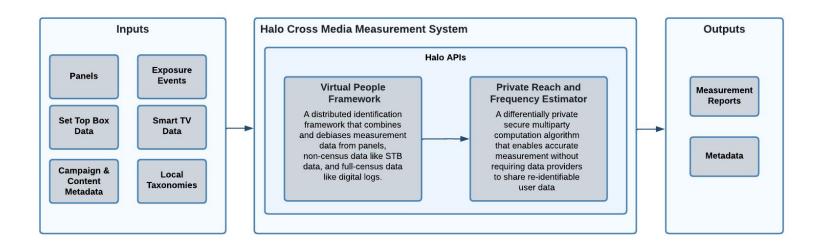


## Halo Virtual People Overview

## Agenda

- Halo at a Glance
- Virtual People Framework
- Q & A

### Halo at a Glance



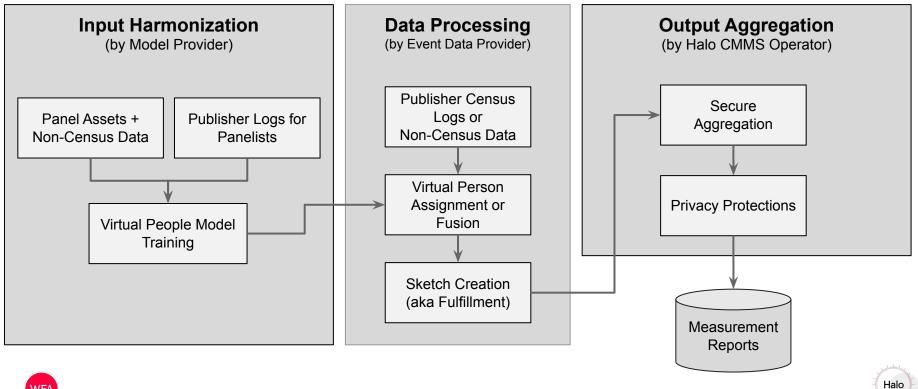
Supported by **two technological pillars** - the Virtual People Framework; and the Private Reach and Frequency Estimator

Halo collects and transforms local inputs and configuration to produce outputs that meet local measurement guidelines via a suite of APIs

Halo



## Another way of looking at it...





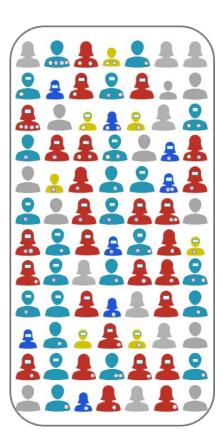
## Virtual People Framework





## Virtual Population

- Based on census data and enumeration survey of the country / market
- Consists of Virtual Persons (VIDs)
  - One VID per person in the universe under measurement
    - Each VID has demographic attributes, e.g., gender, age-group, geographic area, ...
    - Attributes are in the right proportions matching the enumeration data
  - For example in Italy the Virtual Population might consist of 50 million Virtual Persons
- All measured activity is assigned to Virtual Persons
  - Campaign exposure (and content consumption) at different publishers/broadcasters/platforms
  - Mobile, desktop, CTV, TV, Print, Radio, Out-of-home Advertising
- Is the basis for all reporting





## Assignment of Activity to Virtual Persons

Two main ways to do it:

1. Using VID Models

2. Data Fusion

### Assignment Using VID Models

## Demographic Correction

- Publisher-provided demographic attributes per digital ID/event provided through the panelist data exchange are corrected using a correction method trained using the panel as the ground truth
- If the publisher doesn't have (complete) demographics, missing information is filled in using information from the panel

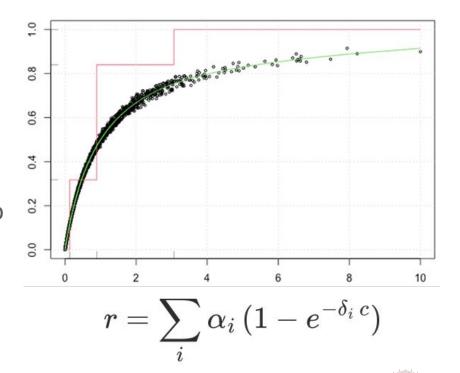
1	M 18-24	M 25-34	M 35-44	M 45-54	M 55-64	M 65+	F 18-24	F 25-34	F 35-44	F 45-54	F 55-64	F 65+	18-24	25-34	35-44	45-54	55-64	65+	М	F	Unknown
M 18-24	0,539	0,026	0,001	0,000	0,000	0,000	0,093	0,000	0,000	0,000	0,000	0,000	0,322	0,015	0,000	0,000	0,000	0,000	0,121	0,015	0,064
M 25-34	0,236	0,545	0,014	0,000	0,000	0,000	0,000	0,111	0,000	0,000	0,000	0,000	0,107	0,312	0,008	0,000	0,000	0,000	0,177	0,023	0,097
M 35-44	0,105	0,237	0,578	0,016	0,001	0,000	0,000	0,000	0,135	0,000	0,000	0,000	0,040	0,105	0,322	0,007	0,000	0,000	0,169	0,021	0,090
M 45-54	0,050	0,112	0,280	0,711	0,029	0,000	0,000	0,000	0,000	0,160	0,000	0,000	0,018	0,045	0,120	0,365	0,012	0,000	0,147	0,019	0,080
M 55-64	0,013	0,030	0,074	0,191	0,762	0,004	0,000	0,000	0,000	0,000	0,139	0,000	0,006	0,016	0,043	0,110	0,430	0,002	0,175	0,022	0,094
M 65+	0,003	0,006	0,015	0,039	0,147	0,903	0,000	0,000	0,000	0,000	0,000	0,137	0,001	0,003	0,009	0,023	0,079	0,492	0,157	0,020	0,083
F 18-24	0,055	0,000	0,000	0,000	0,000	0,000	0,577	0,032	0,001	0,000	0,000	0,000	0,329	0,015	0,000	0,000	0,000	0,000	0,007	0,109	0,062
F 25-34	0,000	0,044	0,000	0,000	0,000	0,000	0,212	0,544	0,016	0,000	0,000	0,000	0,114	0,320	0,008	0,000	0,000	0,000	0,011	0,184	0,103
F 35-44	0,000	0,000	0,038	0,000	0,000	0,000	0,074	0,193	0,522	0,014	0,000	0,000	0,040	0,103	0,319	0,007	0,000	0,000	0,009	0,157	0,088
F 45-54	0,000	0,000	0,000	0,043	0,000	0,000	0,030	0,083	0,223	0,567	0,021	0,000	0,018	0,047	0,125	0,374	0,012	0,000	0,008	0,140	0,078
F 55-64	0,000	0,000	0,000	0,000	0,060	0,000	0,011	0,029	0,082	0,206	0,667	0,003	0,005	0,014	0,037	0,091	0,383	0,002	0,009	0,139	0,078
F 65+	0,000	0,000	0,000	0,000	0,000	0,092	0,003	0,007	0,021	0,052	0,174	0,860	0,001	0,004	0,009	0,024	0,083	0,504	0,009	0,150	0,084



## **Assignment Using VID Models**

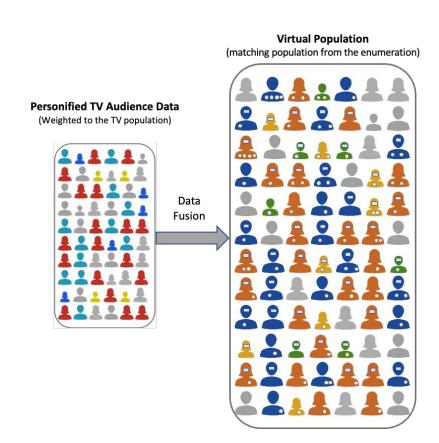
#### Reach Modelling

- We train a model based on the digital ID-generating behavior of panelists
- Assignment of digital IDs and their associated events (campaign exposure and content consumption) to VIDs reproduces the reach curve (#IDs → #Virtual Persons)



## Assignment using Data Fusion (Example)

- Household-level viewing from set-top-box households
- Personified viewing using household demographic information and surveys
- Large sample weighted to the Virtual Population
- Viewing of people in the weighted sample fused with VIDs in the Virtual Population respecting demo-/geographic attributes and weights and other fusion clues.
- Similar method can be applied to any weighted respondent-level dataset, e.g., print, radio, and out-of-home advertising data





For a complete introduction see: <u>The Halo Cross-Media Measurement Framework</u>





