# **THE POWER OF PRODUCT TESTING** WITH SYNTHETIC DATA

Humanizing Al series, part two



## Ipsos' Research for Product Testing with Synthetic Data

Ipsos carried out two research waves to find ways to uncover effective strategies for making product testing more agile.

# Wave 1



### 02. THE APPROACH

Using data from Ipsos' extensive product testing database, we took a three-step process to correlate overall liking scores with sample sizes:



### 03. THE DISCOVERY

A small human sample of 50 respondents can yield results like a larger human sample.

Larger product differences lead to more consistent results between sample groups.



When the top product differs from the worst by at least 8%, 50 respondents suffice, with some limitations (correlation coefficient = 0.8).

#### 04. THE TAKEAWAY

Groups of 50 can mimic samples of 200 but have limitations:

Limited insights into subgroups

Lower statistical power for detecting product differences

1. Small Human Samples (n = 50)

2. Large Human Samples (n = 200) 3. Small Human Samples (n = 50) Augmented with Synthetic Samples (n = 150)

# Wave 2



#### 01. THE QUESTION

Will small human samples, augmented with synthetic data<sup>3</sup>, mirror results from larger human samples?



#### 02. THE APPROACH

To ensure robust validation, we used data from various product categories, markets, and testing formats (including blind and branded studies), and considered several factors:





**Dr. Nikolai Reynolds,** Global Head of Product Testing Nikolai.Reynolds@ipsos.com

