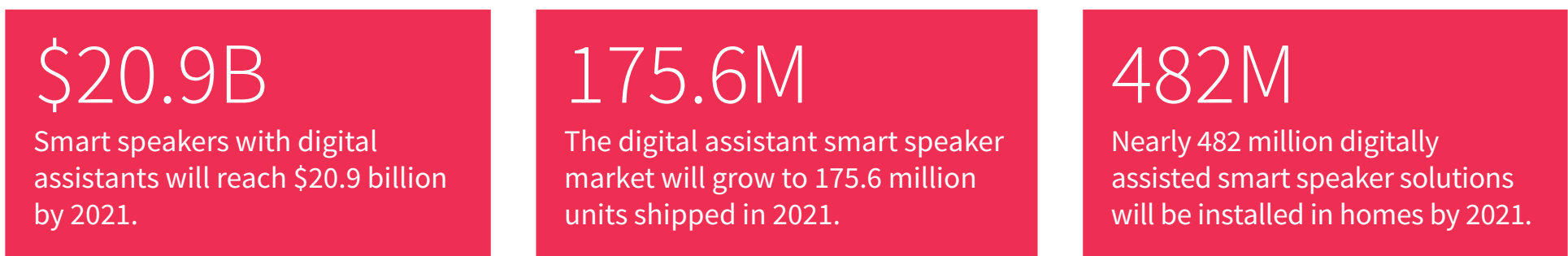


Smart Speaker Benchmarking

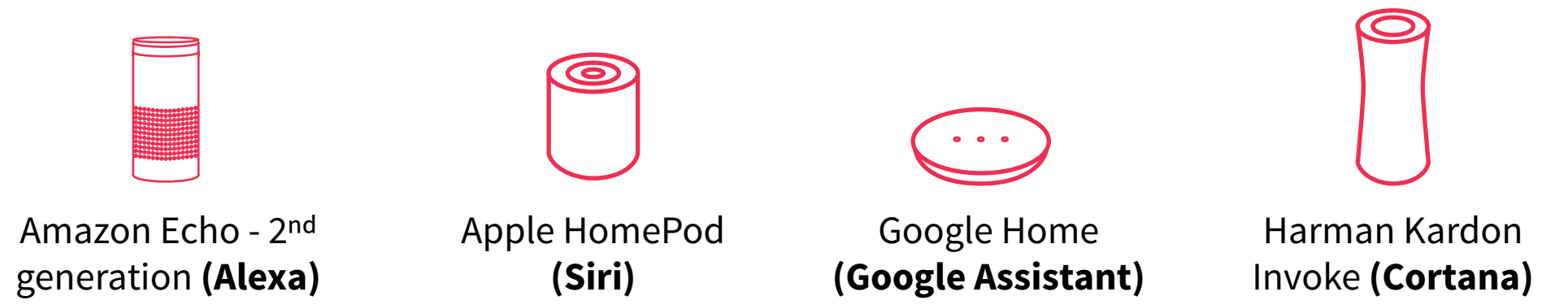
Which platform delivers the best real-world performance?

With digital assistants becoming an integral part of daily connected life, the smart speaker market is exploding.

IHS Markit research estimates:



To see who delivers the best experience under real-world conditions, RootMetrics benchmarked performance of the four major smart speaker platforms.

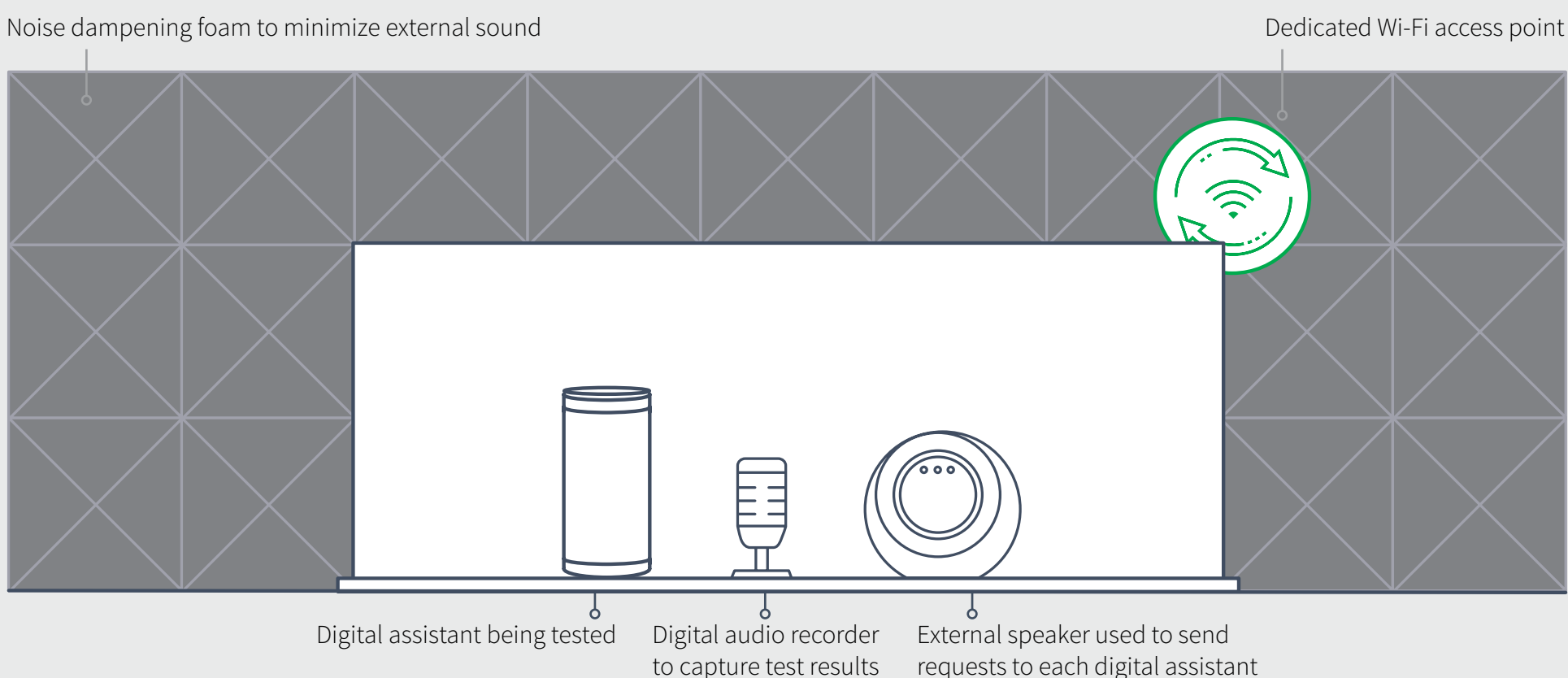


Accurate | Scientific | Thorough

A better way to test smart speaker performance

To assure accuracy of results, we tested performance in a controlled lab setting. And to assure consistency of voice, inflection, and cadence during testing, we used Google Cloud Text-to-Speech to give commands.

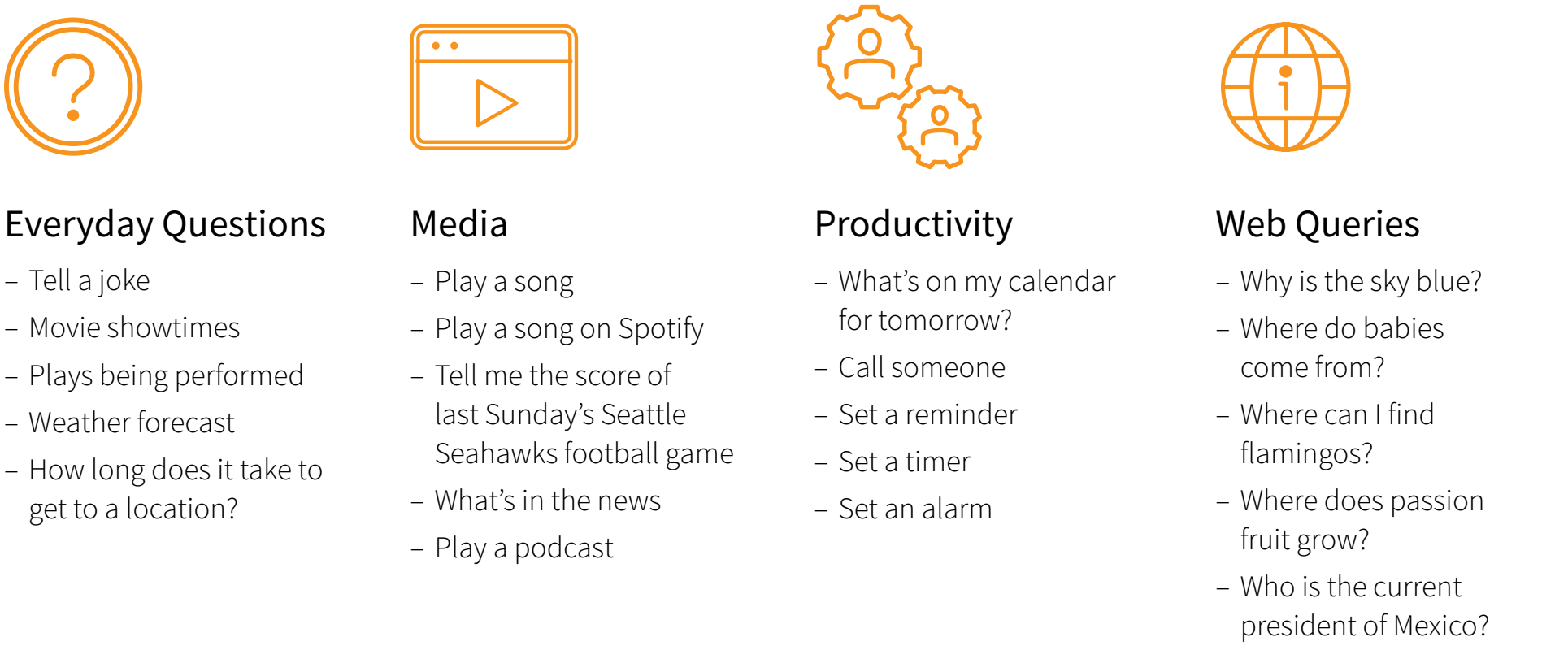
- Scientific, objective testing and results
- Wireshark capture of internet traffic from Wi-Fi access point
- Testing completed at multiple days and times
- 400 data points analyzed



Voice commands and test categories

Our smart speaker testing focused on the usage scenarios that consumers care most about: everyday questions, media, productivity, and web queries.

Within each category, five voice commands were given and the responses scored.



Evaluating performance

Each platform was evaluated on how reliably it completed a request, how accurate the response was, and how quickly the action was completed.



High-level performance results:

Our results suggest that it remains a tight race between digital assistant platforms, with productivity requests often handled better than other tasks.

Best Performance Category	Amazon Echo - 2 nd generation (Alexa)	Apple HomePod (Siri)	Google Home (Google Assistant)	Harman Kardon Invoke (Cortana)
	Productivity	Media and Productivity	Productivity	Web Queries