

Streaming traffic on mobile apps shifts to usergenerated video

May 2023



Our client (an advertiser) wants to know where to invest advertising dollars to engage younger audiences





Client hypothesis

We know that younger audiences stream much more than they watch linear TV, especially on their cellphones.

- Sure, they use TikTok, but commercial streaming platforms are still what they spend most of their time on, right?

HarrisX's Telephia data (actual usage) ended their speculation



Usage for <u>commercial streaming</u> vs <u>user-generated video apps</u>



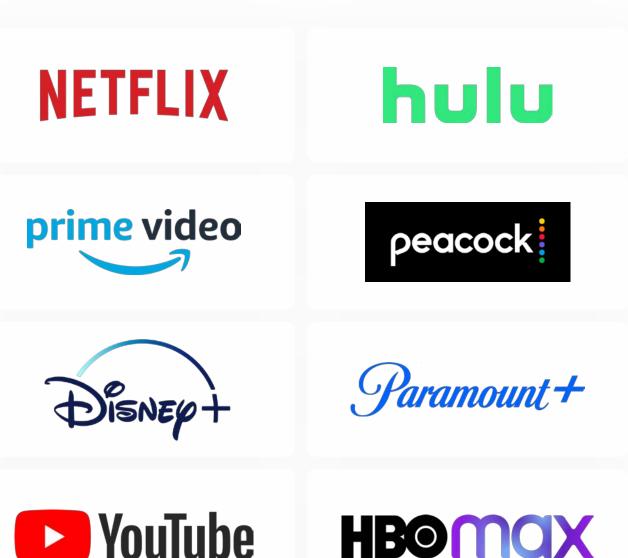
Usage differences among three age groups

Fact: we are at a tipping point for streaming usage on cellphones

For younger ages (who spend most of their time on cellphones) <u>the vast</u> <u>majority of mobile traffic (WiFi or cell) is from user-generated apps like</u> <u>TikTok.</u> Advertisers like our client wanting to reach younger audiences need to diversify their approach – this is a clear threat to commercial streaming.



HarrisX monitors commercial streaming services through both survey-based and "real time" platforms





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Total Communications Survey

All aspects of home internet, TV, streaming, bundles: data from 2007, sample of 90K+ per year

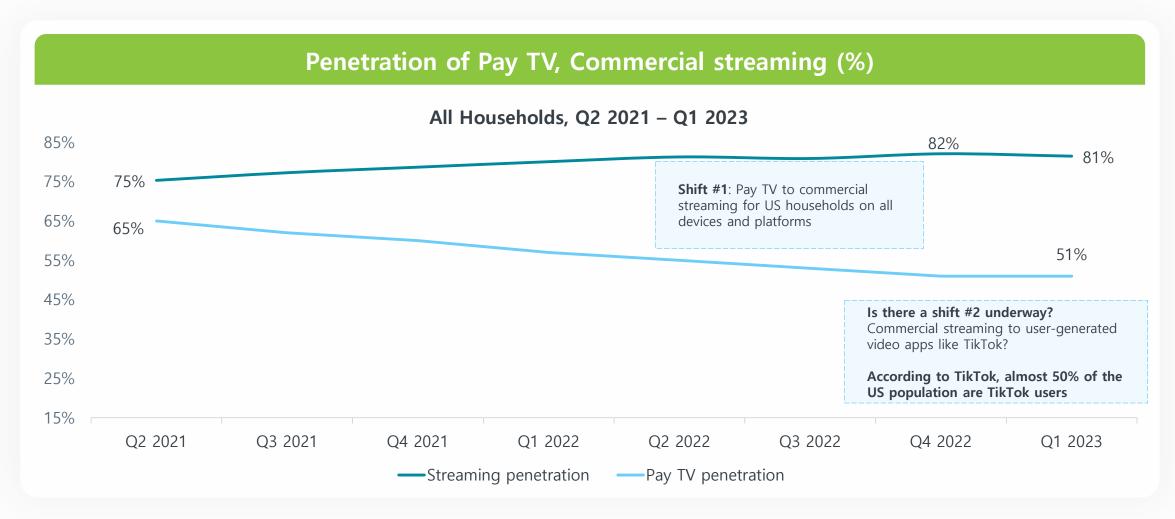
Billing Snapshots (bill scraping)

Charges, taxes & fees, plan details, speed tiers, bundles, CSAT tracked for internet providers and mobile carriers

Telephia telemetry (data usage)

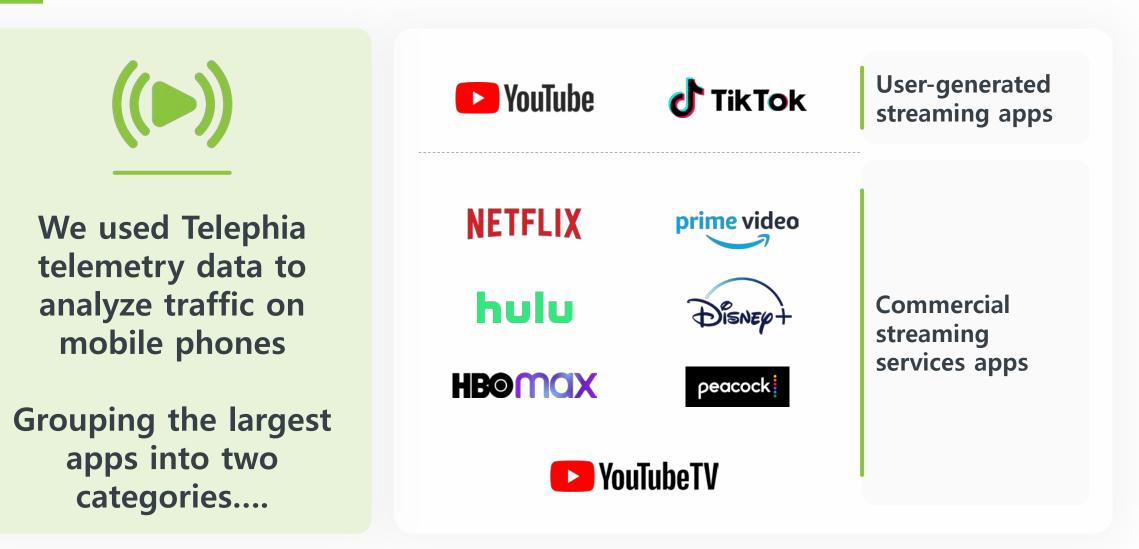
Telemetry mobile app tracking device, network, parameters and so much more

We used data from (1) Total Communications Survey and (3) Telephia to address the client ask. The market has shifted from Linear TV to commercial streaming services. BUT commercial streaming has plateaued – is traffic going to user generated apps?



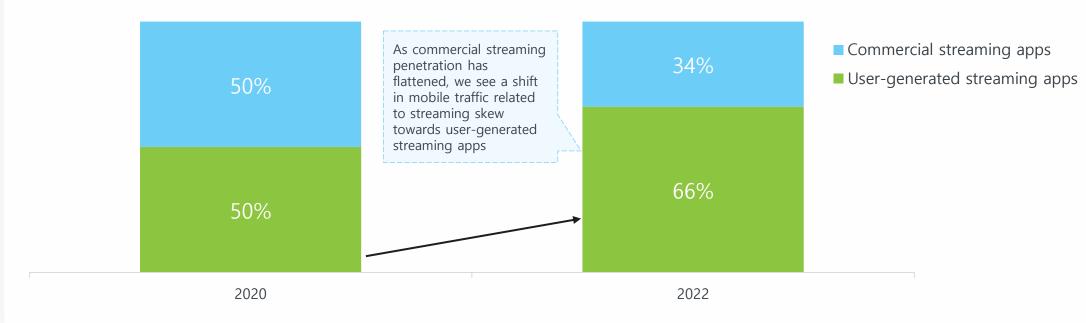
Base: 183,156 household decision makers, 21,742 Telephia observations of Android users, Q2 2021 – Q1 2023 **Source:** HarrisX Total Communications Survey, Telephia

Hypothesis: User-generated video apps like TikTok have continued to grow not just in penetration but also in engagement (share of time on mobile)



Finding #1: User-generated video apps (e.g. TikTok) now commands more data \Im usage than commercial streaming apps (e.g. Netflix) on mobile phones

Monthly streaming traffic on commercial vs user-generated apps on cellphones

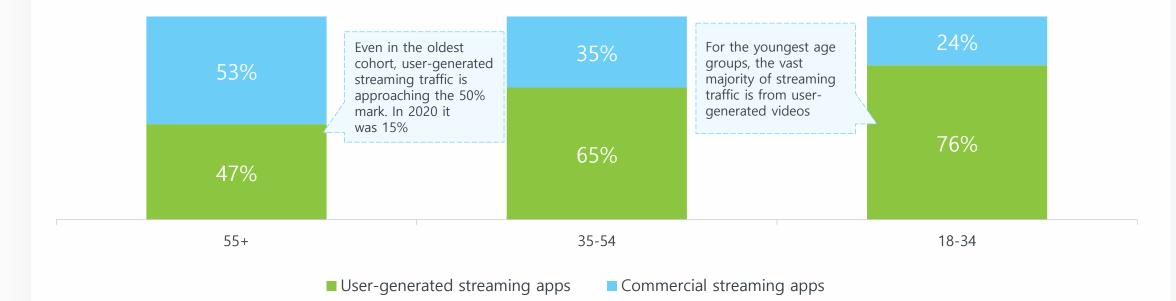


Monthly usage per panelist for all Telephia panelists, Jan-Dec 2020 vs 2022

Number of observations: 7,560 (2020), 4,429 (2022) Source: HarrisX Telephia user panel Finding #2: Younger age groups are definitely driving the trend – the vast majority of their streaming data is on user generated apps

Monthly streaming traffic on commercial vs user-generated apps on cellphones

Streaming usage per panelist by age, Jan-Dec 2022



Number of observations: 4,429 (2022) Source: HarrisX Telephia user panel



Implications of the shift to user-generated streaming traffic on cellphones

With growth in the commercial streaming industry flattening, reaching younger audiences requires an understanding of what they are streaming on their cellphones – this is where they spend their time.



User-generated streaming apps like TikTok are increasingly popular. HarrisX data shows that the majority of streaming traffic on cellphones is now on user-generated apps as compared to commercial streaming services.



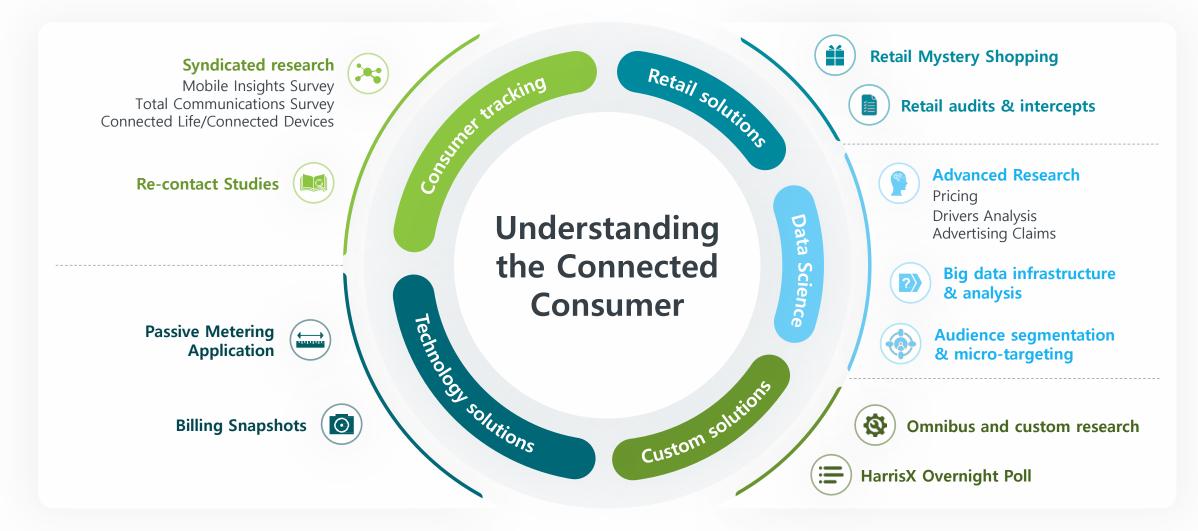
Among 18–34-year-olds, the skew towards user-generated streaming apps is particularly high, with 76% of data usage compared to 24% of traffic from commercial streaming apps.

Implications: Our client must consider the rise of user-generated mobile apps if they want to reach and engage younger consumers. Commercial streaming platforms will soon need to re-assess their strategy and chart a new course to retain them.



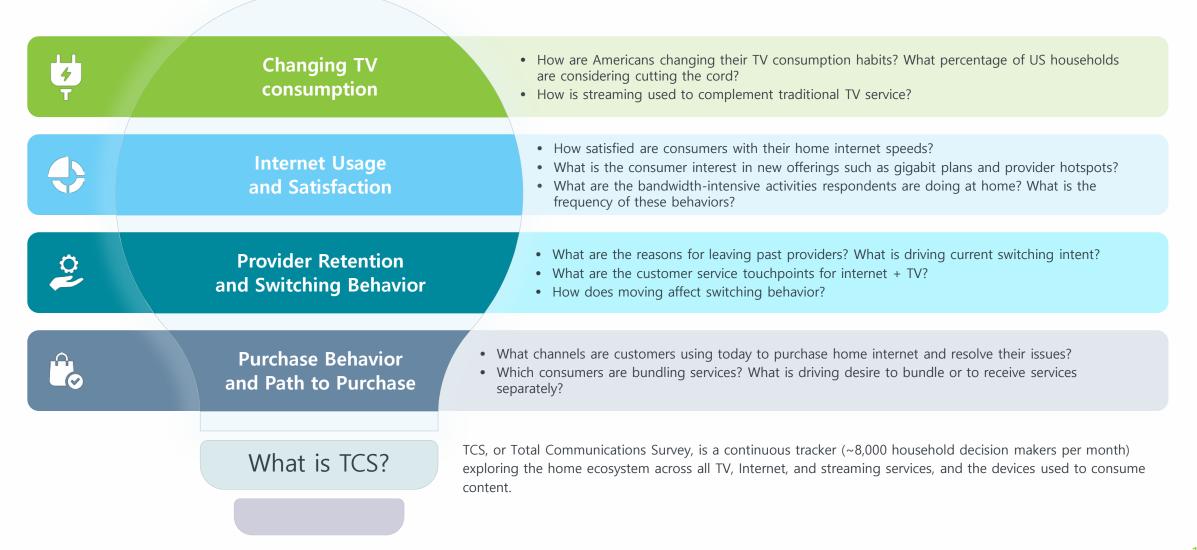
About HarrisX

HarrisX has a full suite of services that includes syndicated trackers, custom research, retail and product insights, and data analytics



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To learn more about how consumers use and perceive their telecom services at $h \times h$ home, HarrisX offers a wide variety of insights through TCS







In addition to collecting primary data (quantitative exercises, uploading of media such as video and images, and qualitative in-depth exploratory tasks) we also capture data via telemetry...

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HarrisX's proprietary Telephia application runs 24/7 on panelist smartphone devices



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HarrisX's proprietary Telephia application is available on Android today and is planned for iOS in 2023

Panelist opt-in ensures privacy compliance and ongoing measurement 24/7 passive monitoring unlocks the layers behind the device and the user Panelists are rewarded in cash in exchange for their opinions and data nx

Our proprietary Telephia app and panel enables the behavioral research of any Ω specific consumer or voter group

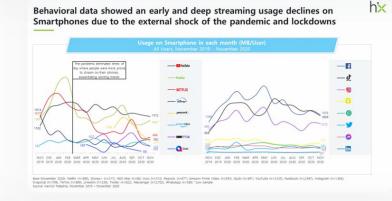
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Privacy-friendly **behavioral analytics platform rewards respondents for opinions and data** in a way they can control. No PII collected.



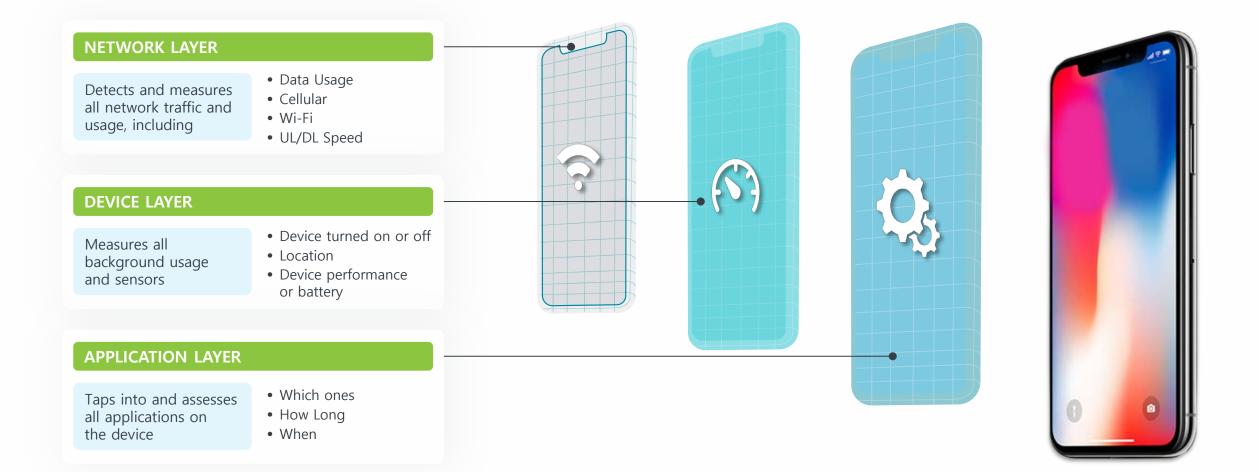
Invaluable aggregated **trend data on consumers' behavior** on their devices **in real time**.



And is **a powerful "profiling" tool** to find the next Soccer Mom.



Telemetry allows us to passively monitor mobile devices across multiple layers $h\dot{\chi}$ in a privacy-compliant way

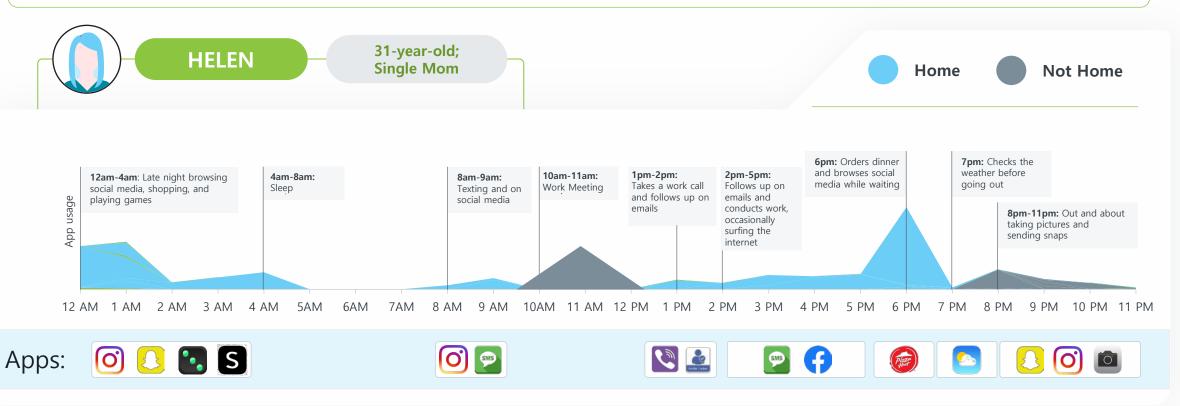




Telemetry enables us to track consumers, a day in the life of....

<u>From our collected data</u>, we know that Helen spends a lot of time between remote work at-home and commuting to clients. As a single mom, she conducts a lot of work from her phone and but also uses it to get ideas for where she might take her kids on the weekend from Instagram.

<u>Using the telemetry feature of Telephia</u>, we know she uses a lot of activity at home when she is doing work, and away when she is supporting her kids, both in areas with excellent and affordable T-Mobile cell and internet coverage. We also know she is an AT&T subscriber – but our data tells us she would be happier as a T-Mobile subscriber!



The benefits of using telemetry data in your research portfolio

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Research initiatives/programs are more sophisticated and tailored via Telephia.

With Telephia, we connect with your current customers when and where it matters.

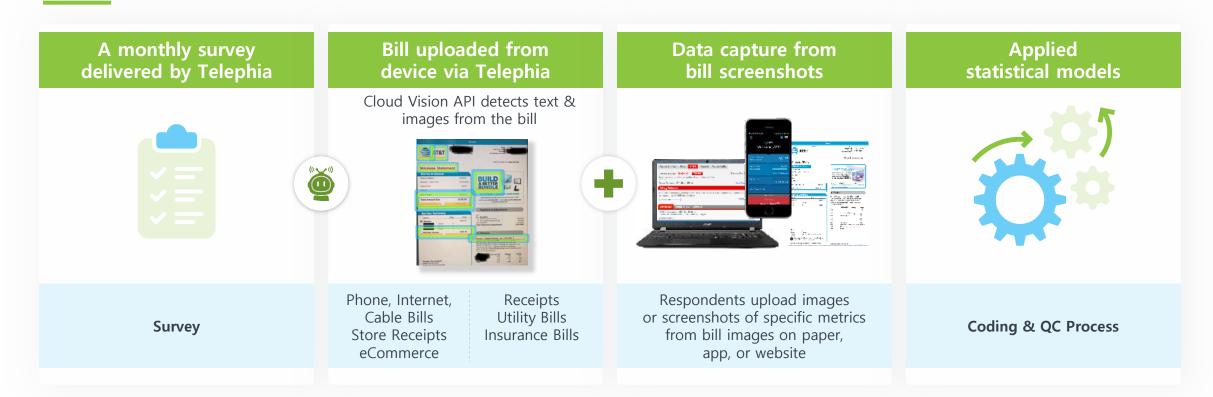
Telephia enables real-time, usage, and location-based surveys/polls and provides an engaging platform that also allows for qualitative exercises and interactive engagements.

Top benefits to incorporating telemetry:

- Geographic based engagements based on cell and wifi coverage and performance against competitors in the "real world, real-time" marketplace
- Allows for in-the-moment polls
- Passive monitoring of app usage
- Ability to push interactions and research based on app usage
- Capture consumer attention Before a competitor does



Telephia In Action – A Case Study: Telephia + Billing Snapshots for a large mobile carrier



Telephia underpins our **Billing Snapshots solution** and rewards panelists for providing copies of actual bills or receipts, and survey-based feedback, so we can better capture consumer spending habits. Combining the pricing and usage with survey feedback gives us a richer understanding of customer satisfaction and intent to switch.

Telephia In Action – A Case Study: **Speed Test for a Regional Carrier**



View carrier performance versus the competition in the marketplace map

Geo-targeted follow-up for surveys in the wild

Assess QoS across WiFi and Cell in real-time in the wild

Get new product feedback before you launch

Rank new product features

Language localization for all audiences



We created a custom Influencer Panel for a regional wireless carrier. By leveraging Telephia, we were able to: custom-recruit a panel of respondents within their unique footprint, creating a community we could track and talk to with opportunities for engagement. This included regular delivery of passive speed tests plus daily diaries after key points in their day and receive feedback on their perceptions of satisfaction – Including on wifi and cell signal referenced against device activity and app usage – Mapped against actual carrier service indicators like upload and download speeds

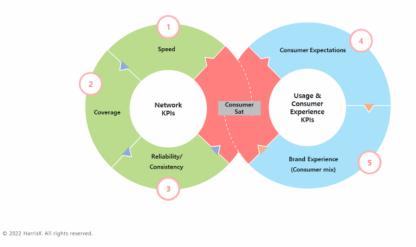
Example of speed study with Telephia: Where will investment in network pay off in terms of customer satisfaction?



- Determine a 'threshold speed' below which satisfaction drops to unsatisfactory levels
- Determine a 'ceiling speed' above which satisfaction gains are marginal

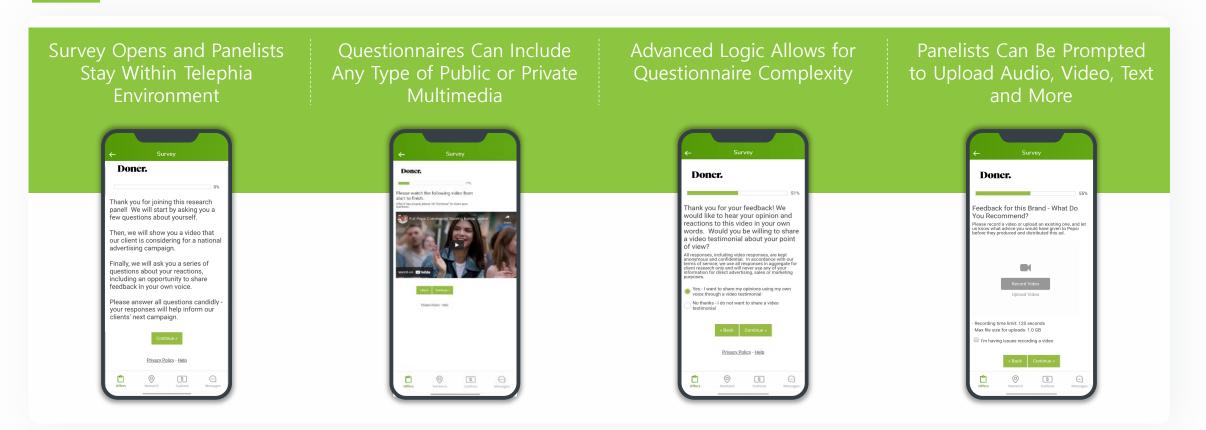


Five drivers of data network satisfaction, but some proved to be stronger than others



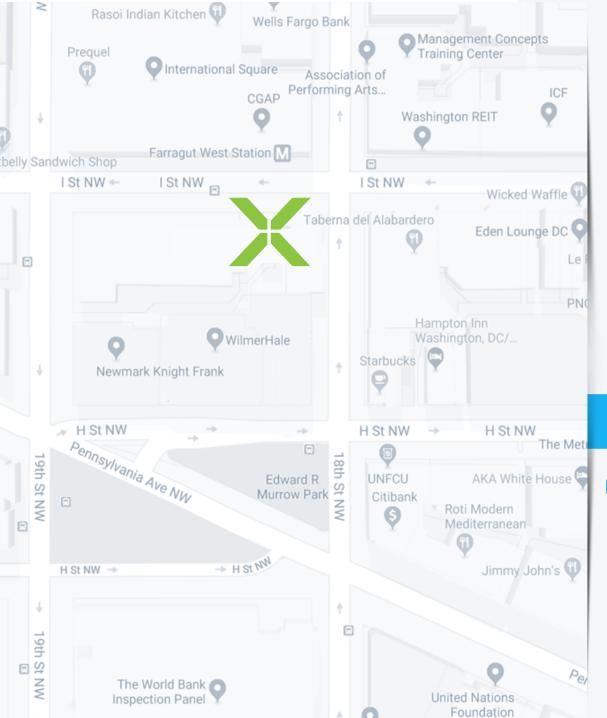
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Telephia In Action – A Case Study: Telephia + Creative Testing for Ad Agency Partner Doner



Telephia **supports a multimedia display** and contributions like video diaries, audio feedback, and free-form journaling. Testing creative concepts, storyboards, messaging, and full video ads allows optimization before campaign launch.

The app icon, skin, buttons, colors, and branding can be fully customized to any company's or brand's specifications, so Telephia community members feel like they are as integrated with your brand as you want them to be.





1808 I St. NW Suite 500 Washington, DC 20006

CONTACT US:

- Kam.Ganguly@harrisx.com
- Zahi.Fawaz@harrisx.com
- www.harrisx.com