



at the
ARF

Demystifying Converged TV Measurement: Four Building Blocks

CIMM Webinar: 12.1.21

Jane Clarke | Retiring CEO, Managing Director
Jon Watts | Incoming Managing Director
Alan Wolk | Co-Founder, Lead Analyst, TVREV

TODAY'S AGENDA

1. **Welcome:**
Jane Clarke
2. **Webinar Overview:**
Jon Watts
3. Plan for CIMM's ***Guide to Converged TV Measurement Providers:***
Alan Wolk
4. CIMM's approach to the ***Building Blocks for Converged TV Measurement:***
Jane Clarke
5. Q&A



WEBINAR OBJECTIVE

Unpack Converged TV measurement:

- What is Converged TV?
- What are the different types of converged TV measurements for content & ads: **planning & optimization tools, audience measurement & ad campaign impact measurement?**
- How and why will Converged TV measurement change soon?

WHAT IS CONVERGED TV?

Converged TV is:

- “Premium” content distributed across multiple platforms, from linear to VOD to digital video and CTV streaming apps
- Monetization models include subscription (SVOD), as well as all forms of ad support from linear to addressable, typically using data (DDL: data-driven linear) or fully addressable

WHY MEASUREMENT WILL CHANGE

Converged TV measurement will change – even if it's from Nielsen.

- Addressable TV requires ad spot level measurement, which requires second-by-second data; current C3 metric averages all ad minutes in a program
- Large granular datasets are needed to plan, buy and evaluate advanced audiences – as the market is moving away from age/gender guarantees.



ALTERNATIVE MEASUREMENT PROVIDERS

Industry needs to understand which companies are combining all the components for converged TV “currency-grade” audience measurement:

- There is a landscape of companies in the converged TV ecosystem, but only a few are combining all the building blocks for all forms of TV and streaming.

NEW CIMM GUIDE

CIMM is creating a ***Guide to Converged TV Measurement Providers*** to clarify the differences between companies.

- Introduction explaining landscape of the Converged TV ecosystem
- RFI for Audience Measurement companies
- Comparison charts and in-depth profiles for Audience Measurement vendors



STATUS

The project has just launched and will be completed by CIMM's Annual ***Converged TV Measurement & Data Summit*** on **2/16-17/2022**. To date:

- Converged TV Audience Measurement companies have been identified
- RFI's are being sent soon



QUESTIONS IN THE RFI

The RFI will cover questions such as:

- Data Sources
- Cross-Platform Capabilities
- Timeliness
- Person-Level Data
- Unique Capabilities

GUIDE UPDATED AS NEEDED

Converged TV measurement is a rapidly-developing area, as companies continue to expand and adapt methodologies.

- Guide will be updated as needed.
- Guide will be available at no charge from the CIMM website, once it's completed and has been reviewed by CIMM members.

CIMM'S MISSION

Affiliate of ARF: Neutral R&D coalition of cross-platform video ecosystem to innovate:

- Methods to measure and compare cross-platform audiences objectively
- Bring more granular measurement to TV for planning, buying & attribution
- Support future real time trading platforms for cross-platform premium video



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CIMM'S INDUSTRY ROLE

Community for transparency, confidence & best practices in Converged TV Measurement

- Opportunity for all players in converged TV/video tech and data ecosystem to have objective discussions
- Create Whitepapers & Studies, such as:

Best Practices in Combining Smart TV and STB Data

Guide to TV Attribution Providers

Identity Resolution Providers Report



CONVERGED TV MEASUREMENT ROADMAP

Plan & Optimize

- Understand cross media behavior by audience segments



Audience Measurement

- Unduplicated reach & frequency
- Comparable metrics



Evaluate Impact

- Measure impact KPIs & attribution

**Optimization, Activation & Attribution Platforms
For Cross-Platform TV/Video in Real Time**

DEFINITIONS

Audience Measurement: net count of deduplicated ad impressions or "reach" & average frequency for demo or advanced audiences; often used as "currency;" refined by verification metrics

Planning & Optimization: Variety of data types and tools used to create target audiences and optimize them mid-campaign.

Attribution: Individual & HH level measurement to estimate contribution to specific KPIs for each converged TV impression in consumer journey; measuring incrementality is a best practice.



DEFINITIONS

Key difference between providers of audience measurement vs. attribution is the presence of data science models to combine the four ***Building Blocks*** with the goal of deduplicating reach & estimating frequency.

- Method to project to entire population
- Model(s) to account for incomplete data

Audience Measurement Building Blocks

1. **TV “census-like” data:** Standardized real time Smart TV (ACR) and/or STB scaled content/ad tuning data, federated for national representativity
2. **Digital census data:** Standardized real time streaming app/digital video content/ad data
3. **Method to Assign Persons & Adjust Missing Data:** Cross-platform panel (or linked TV/digital panel) or other model for demos, VPVH (co-viewing), OTA viewing and other data biases/gaps
4. **ID Resolution:** for households and individuals

PLUS DATA SCIENCE!



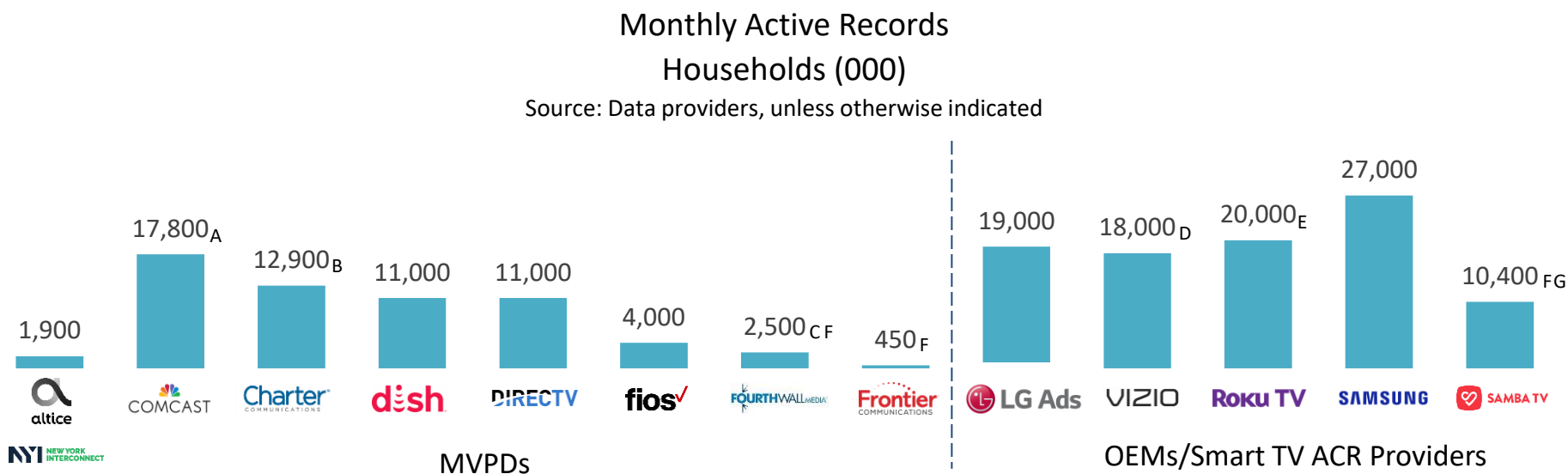
1) Scaled STB & Smart TV Data

CIMM's 2020 “***Best Practices in Combining Smart TV & STB Data***,” explains strengths & weaknesses of each; best practice is to combine:

- STB data has deterministic HH relationship; Smart TV data is linked via less stable IP addresses. Each OEM & MVPD has geo & demo biases in their footprints.
- Smart TV data can provide live, VOD, DVR & CTV tuning in real time; but can't ID streaming “source”
- STB data represents more TVs per HH than single available ACR provider; but Pay TV homes in decline
- ACR data more future-forward; accuracy improves when federated with data science; but would be better with more providers.

Reporting Household Count Overview* MVPDs & OEMs

These household counts represent the number of homes from **each individual source** with active viewing during a 30-day period



A Pre-Meditated Media, Janus Strategy & Insights estimates based on public domain sources

B STB only; this does not include app data

C Represents multiple 2nd and 3rd tier MVPDs

D Vizio Nationally Representative Panel (NRP) data set base is 3.5 mm homes

E Pre-Meditated Media, Janus Strategy & Insights estimates

F Estimates reflect 2020

G Samba nationally representative data set is 4 mm homes

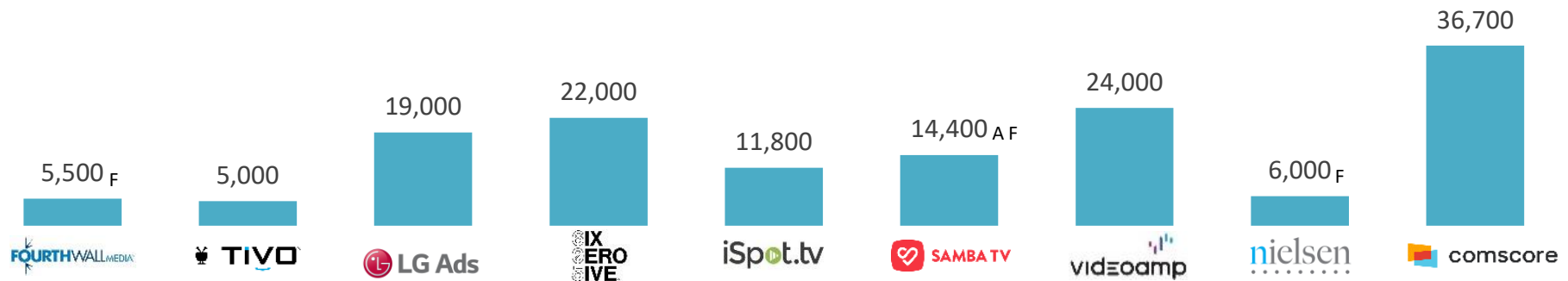
*Not reflective of all OEMs/MVPDs

Reporting Household Count Overview – Third-Party Integrators

These household counts represent the gross number of homes from **multiple sources**, prior to commingling Set Top Box and Smart TV ACR data, with active viewing during a 30-day period.

Monthly Active Records – Third Party Integrators Households (000)

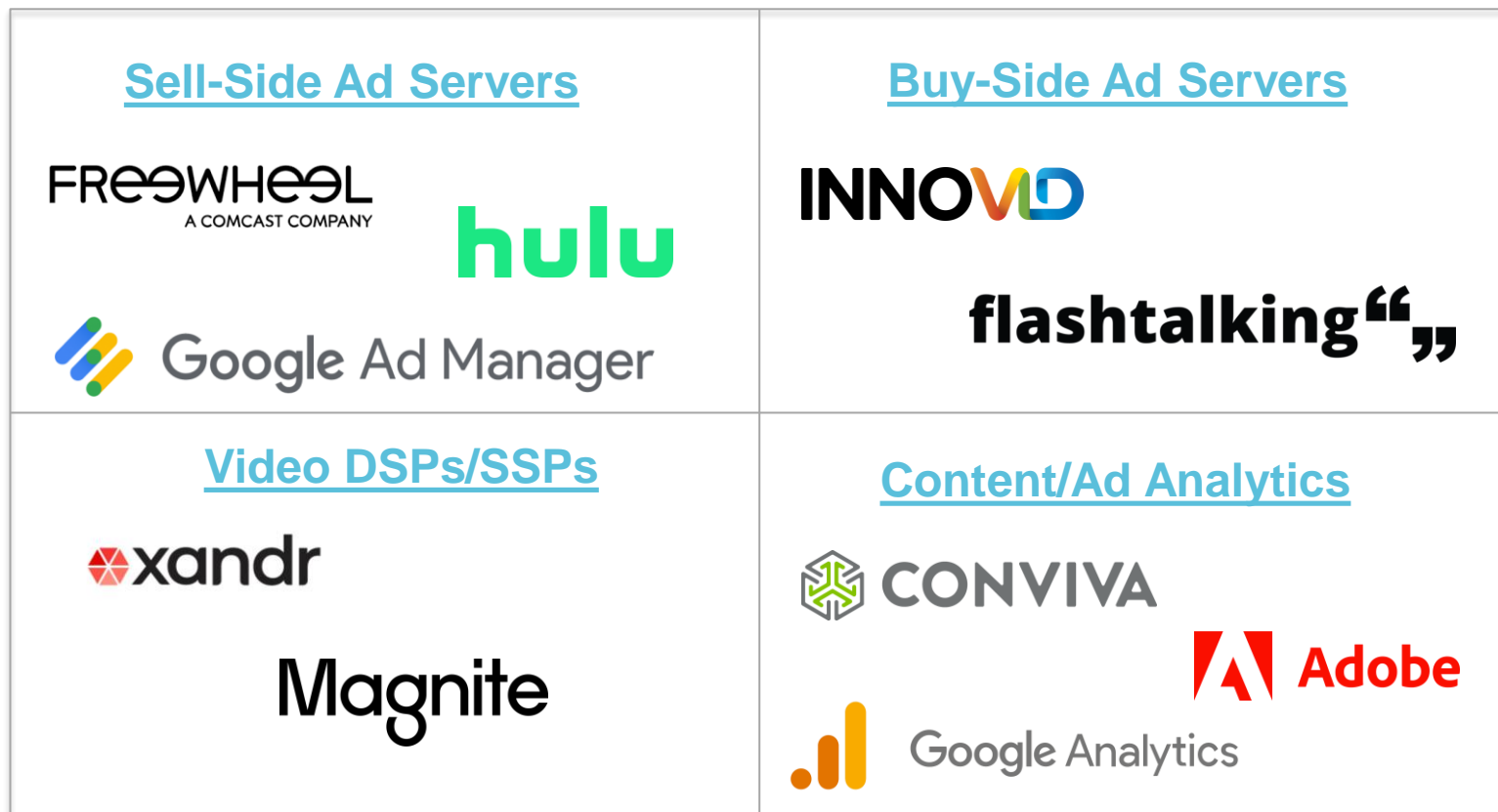
Source: Data providers, unless otherwise indicated



A Samba nationally representative data set is 4 mm homes
F Estimates reflect 2020

2) DIGITAL CENSUS DATA

Complex flow of ad & content exposure data in digital video & app ecosystem.*



STANDARDIZED METRICS NEEDED

Digital census data is captured in different ways, so most data aren't standardized:

- Ad servers capture “point in time” measurement with pixels & tags
- Adobe captures “heartbeats,” which are implemented differently
- Conviva has standardized continuous second-by-second measurement

INDUSTRY SOLUTIONS

Areas for measurement standardization include:

- Uniform impression qualifier across all forms of TV and streaming (ranges from 1 second to 5 minutes now)
- Uniform common metrics, such as Video Starts, Video Completes & Duration
- Ad-IDs to standardize Ad names



3) ASSIGNING PERSONS & DATA GAPS

Methods needed to assign people to machine tuning data & to model data gaps such as Over-the-Air (OTA) viewing.

Panels:



Proprietary Models:



ROLE OF PANELS

Panels can't be the centerpiece of future audience measurement solutions but are important for calibration.

- Media usage is too fragmented for panels to capture
- Large TV and digital datasets are the centerpiece of new solutions; panels used for “persons assignment, co-viewing & adjusting missing data.

ISSUES WITH PANELS

TV panels aren't "truth sets," but inputs:

- High non-response rates (70% norm), especially among minority populations
- Low compliance with persons "check-in," especially in large HH: need passive check-in methods
- Expensive: How big do "calibration" panels need to be?

4) IDENTITY RESOLUTION

Solutions for IDR are the glue to link content & ad exposures across all forms of Converged TV and other media. They are typically based on HH or device resolution to underlying PII.

Commercial/Industry ID Graphs:



Proprietary ID Graphs:



IDR CHALLENGES

Given the variety of IDR providers, key issues are:

- How to standardize ID solutions (or at least make them interoperable) in order to connect datasets using different ID-graphs?
- Need transparency in models to account for missing device IDs & IP addresses.
- Privacy regulation poses ID challenges in the digital ecosystem, but STB data is HH-based and Smart TV data uses IP address. Does HH ID resolution resolve privacy issues?

PUTTING IT ALL TOGETHER

A growing number of companies are assembling all the building blocks for converged TV audience measurement, including deduplicating reach; some as input into attribution measurement.

These companies will be featured in CIMM's ***Guide to Converged TV Measurement Providers.***

Audience Measurement for Content and/or Ads:



PUTTING IT ALL TOGETHER: MTA

Additional companies are assembling all the building blocks, but primarily for **Converged TV or Multi-Touch Attribution**,* without a reach model.



DataPlus Math

A LiveRamp Company



* list is not inclusive

TEST AND LEARN!

Media companies and agencies are testing providers to understand differences on:

- Speed of reporting & depth of coverage
- Ability to link device/person/HH event level data for deduplication
- Ability to analyze advanced audiences
- Rigor of model for persons assignment and co-viewing
- Quality of ad & content identification

CHANGING CARS WHILE MOVING





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