

# TUTORIAL:

## Virtual IDs and Private Sketches for Data-Protected ID Resolution

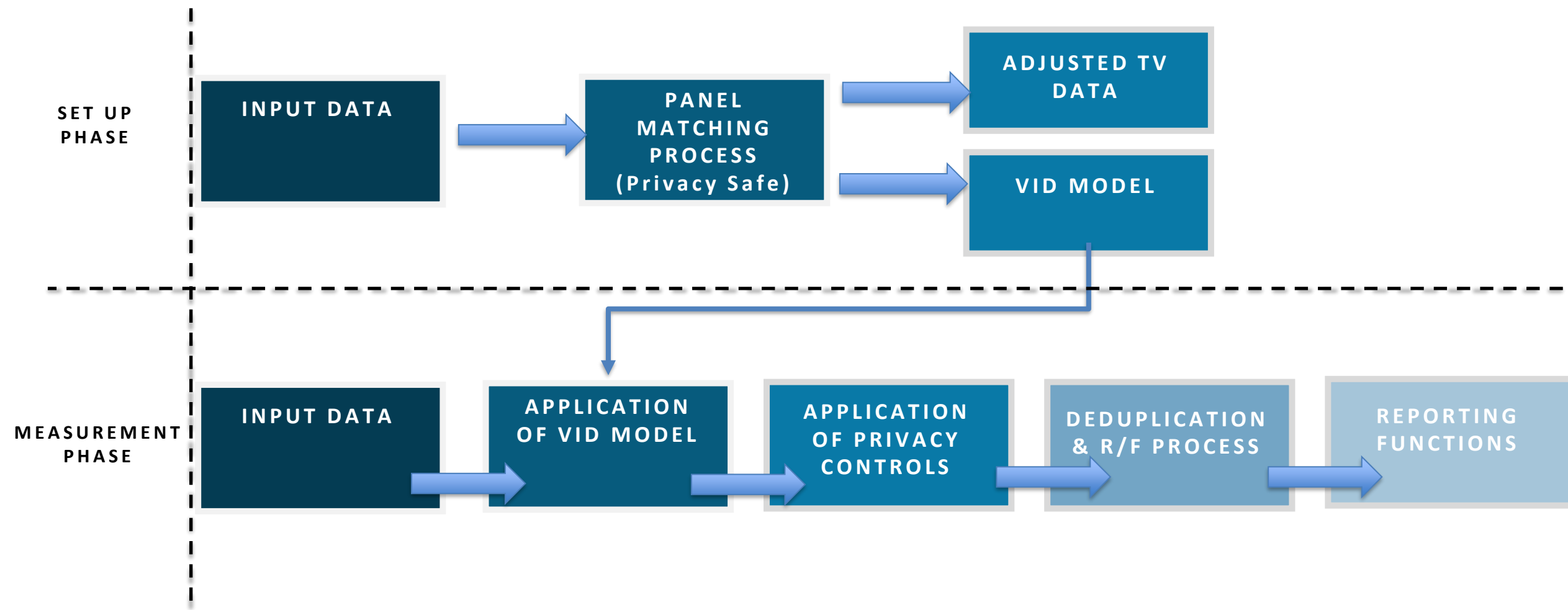


**Ron Pinelli, Media Rating Council**



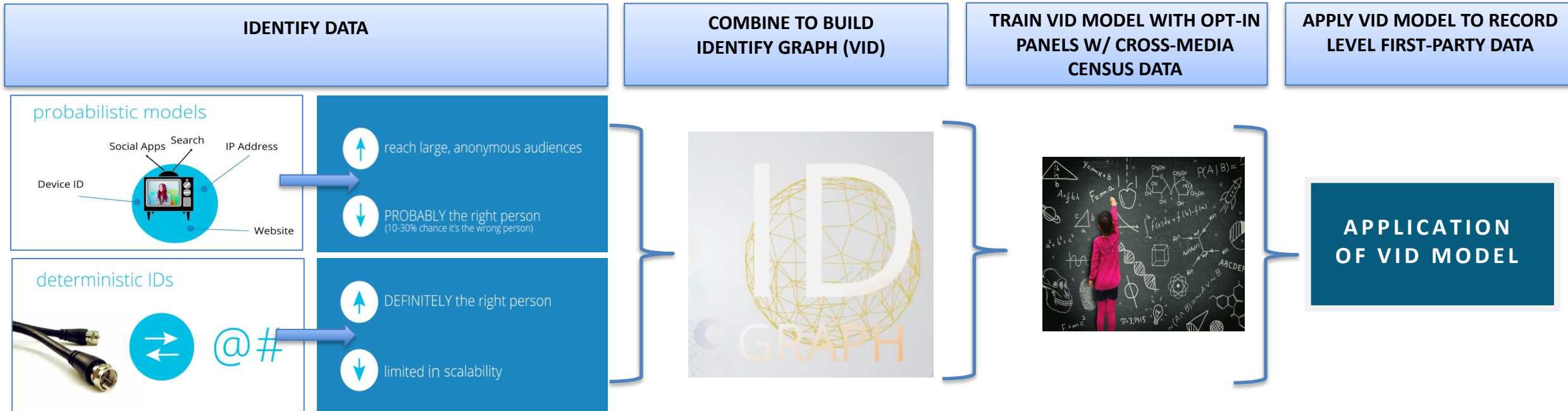
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# High Level View of ANA Blueprint



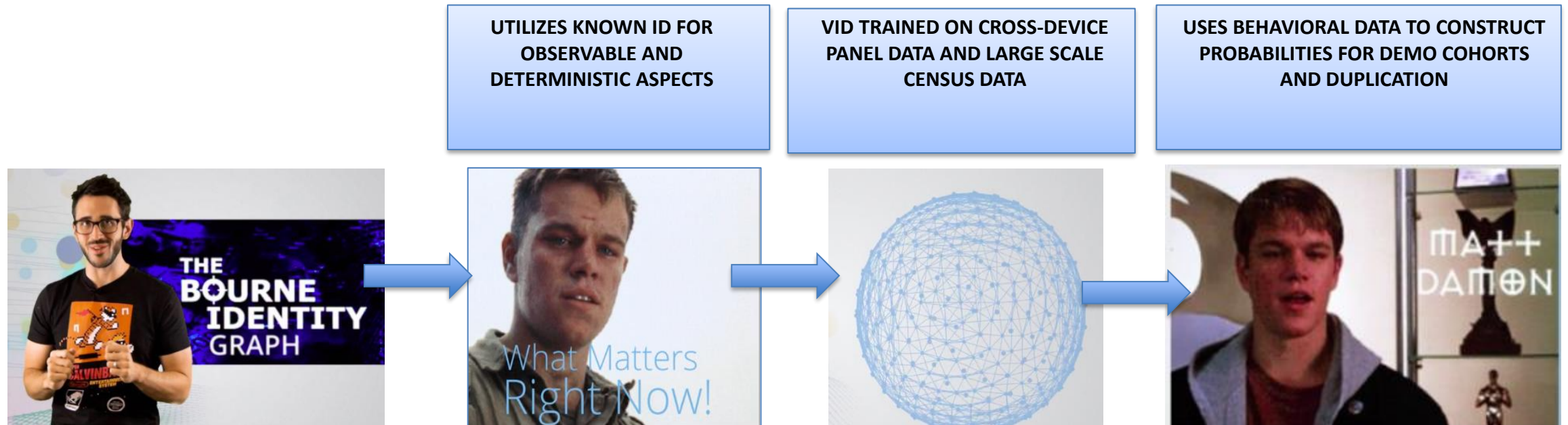
# How VID Works

- Virtual ID or VID is an approach to assign record level data instances to demographic or behavioral groups
- At a high level VID is an identity graph used for assigning records to demo or behavioral groups



# High-level: VID is an Identity Graph

- VID starts by determining if a record belongs to a known ID (deterministic); if so characteristics are maintained
- "Known" records could include matched users, previously observed cookies, IDs or logged in users
- If the record was not previously observed, it is assigned characteristics (probabilistic) based on learning data



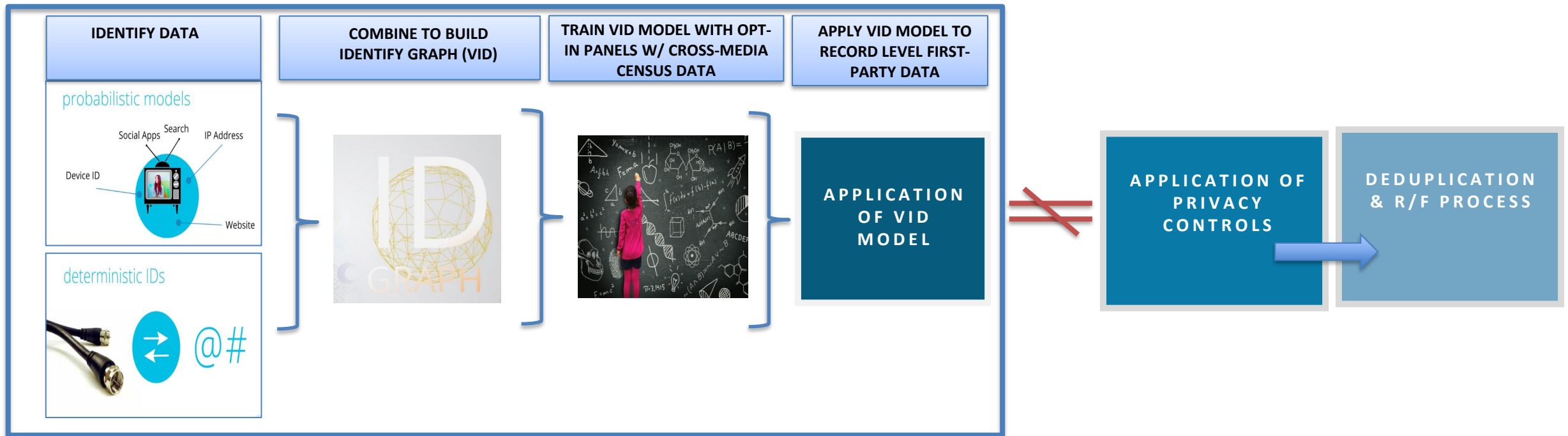
# VID Requires a Training Dataset = Market Level Panel

- VID must be trained on a learning data set where census data across media is matched to opted-in panel data:
  - Panel **is not** intended to be the measurement of record
  - Panel **is** used to match to census data to adjust TV data, estimate overlap and inform the VID identity graph
  - Panel(s) **must-be cross-media**, but aspects can be from separate providers if able to be connected accurately
  - Panels **must be probability based** with good **cross-media coverage**
  - Panel **sample size can be smaller for training** than what's required as the source of measurement records, but still **must be of high quality** (and may serve as the measurement of record for instances of low quality or missing input data such as OTA)
  - ANA design **requires census data to be double-blind matched to panel data** to inform the VID process
  - **Models must be periodically updated** and ANA is working on setting requirements based on testing



# VID is NOT a Unique ID

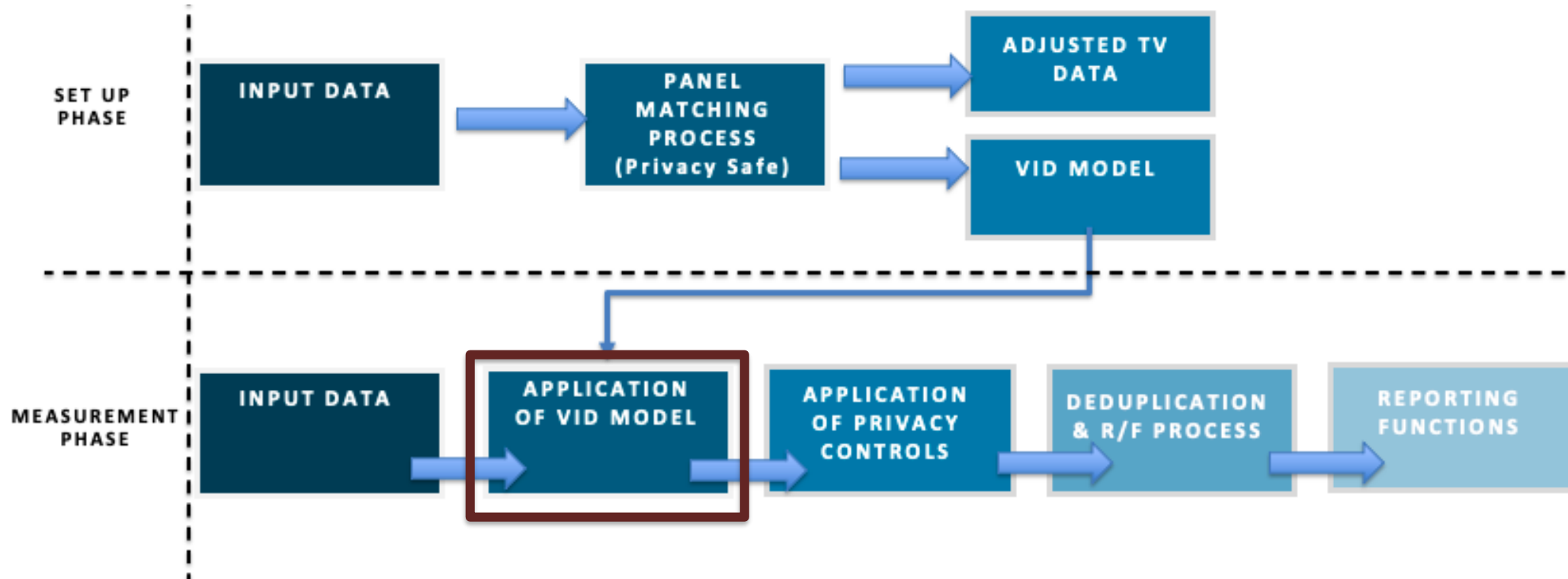
- VID **only** determines what demo or behavioral group a record belongs to and labels it consistently for R&F processing
- VID does not create persistent IDs that can be matched across datasets
- VID does not enable re-identification for targeting or outcomes measurement





# VID is NOT a Privacy Approach

After VID model is trained and applied at the first-party record level, the data is not yet privacy safe



# Privacy Algorithms and Cardinality Estimator

Design them separately but they must work together

- Before VID applied records can be shared externally for processing, privacy preserving algorithms must be applied
- Privacy algorithms add noise and aggregate the data in a manner that allows them to be processed together for R&F in the aggregate on a privacy compliant basis, but does not allow for record-level identification or analysis (privacy sketches)
- Privacy approaches have been suggested at the WFA level and must be subject to peer review as well as tested at the market level





# The Difference between VID vs SUMID

## VID –

### Virtual ID

- VID is more accurate when more deterministic data is present
- Deprecation of cookies, IDFA and other identifiers will weaken VID as it will be more reliant on probabilistic assignment
- VID also does not allow for targeting or outcomes measurement

## SUMID –

### Secure Universal Measurement IDs

- Enable more persistent ID and matching
- SUMID works with VID and does not replace it
- SUMID proposals are present and must be tested, but also considered when designing and testing VID

# VID Must Be Tested

- VID approaches have been proposed, but it is important that they are thoroughly vetted
  - VID must be tested with digital and linear data to ensure persons level and HH or device level data can be accounted for and work together
  - There have been theoretical reviews of the VID approach that have highlighted concerns or questions (some complimentary and some contrarian)
  - These concerns and questions are contemplated in the design and are key aspects of planned testing by WFA, ANA and ISBA
  - It will be important to use real data to evaluate VID at the local market level and adjust it accordingly or explore alternative approaches



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# MAKING PROGRESS DEDUPLICATING REACH:

## Update on ANA's Cross-Media Measurement Initiative



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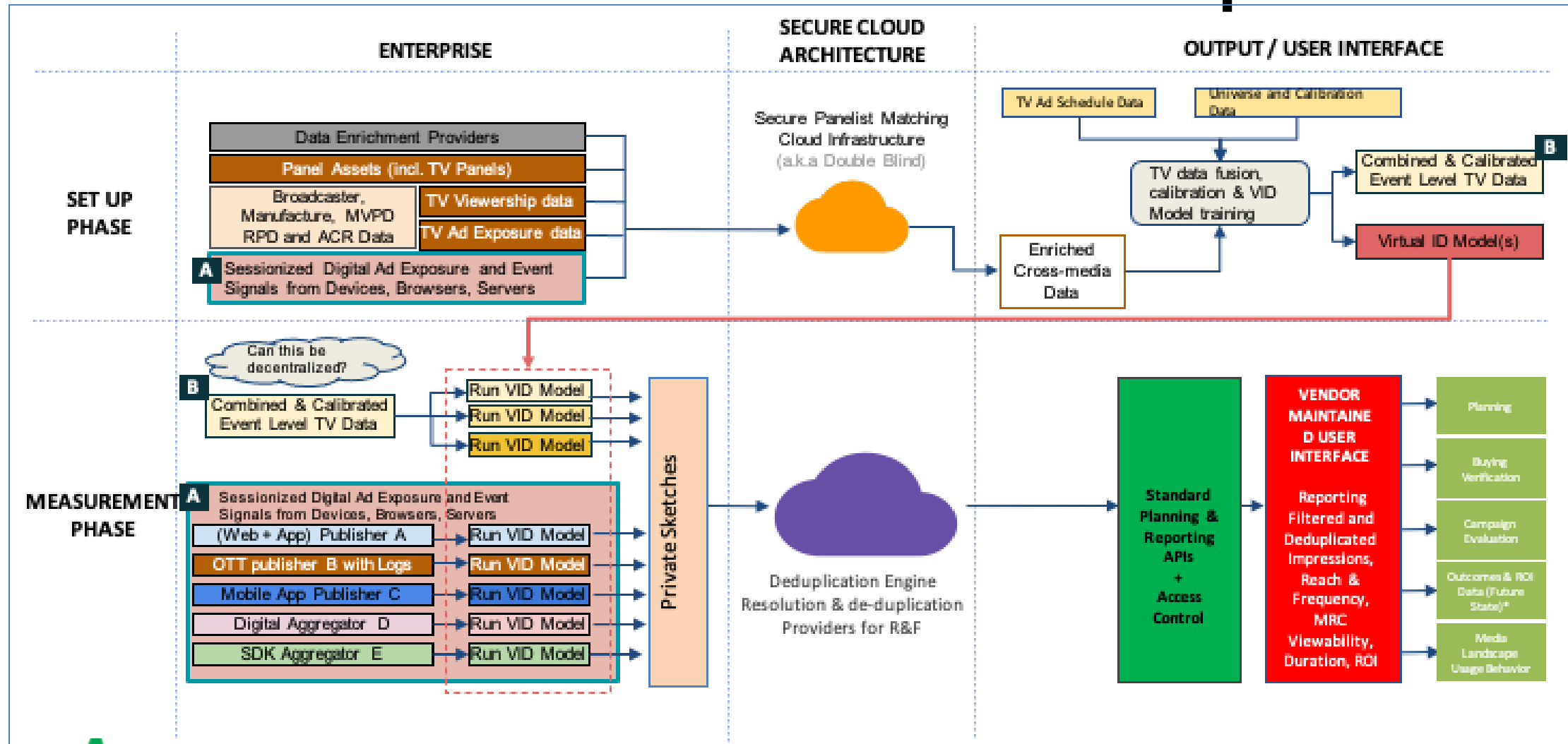
# Marketer-Led Cross-Media Measurement

**Mission:** To create a marketer-led system of unified cross-media campaign measurement restoring essential measures of deduplicated reach & frequency. This will address four key areas ...

<b>CONSUMER BEHAVIOR and MEDIA TRANSPARENCY</b>	Restoring consumer centric, objective, and complete transparent view of ad exposure across all media.
<b>PLANNING</b>	Enable planning and optimization for de-duplicated reach and frequency across all media channels to improve efficiency and consumer experiences.
<b>CAMPAIGN EVALUATION</b>	Ability to evaluate the complete and cumulative effects of a campaign delivery across all media channels and devices, including value of specific media channels.
<b>OUTCOME and ROI</b>	Improve precision of decision making leading to greater ROI and value across all effectiveness measures.

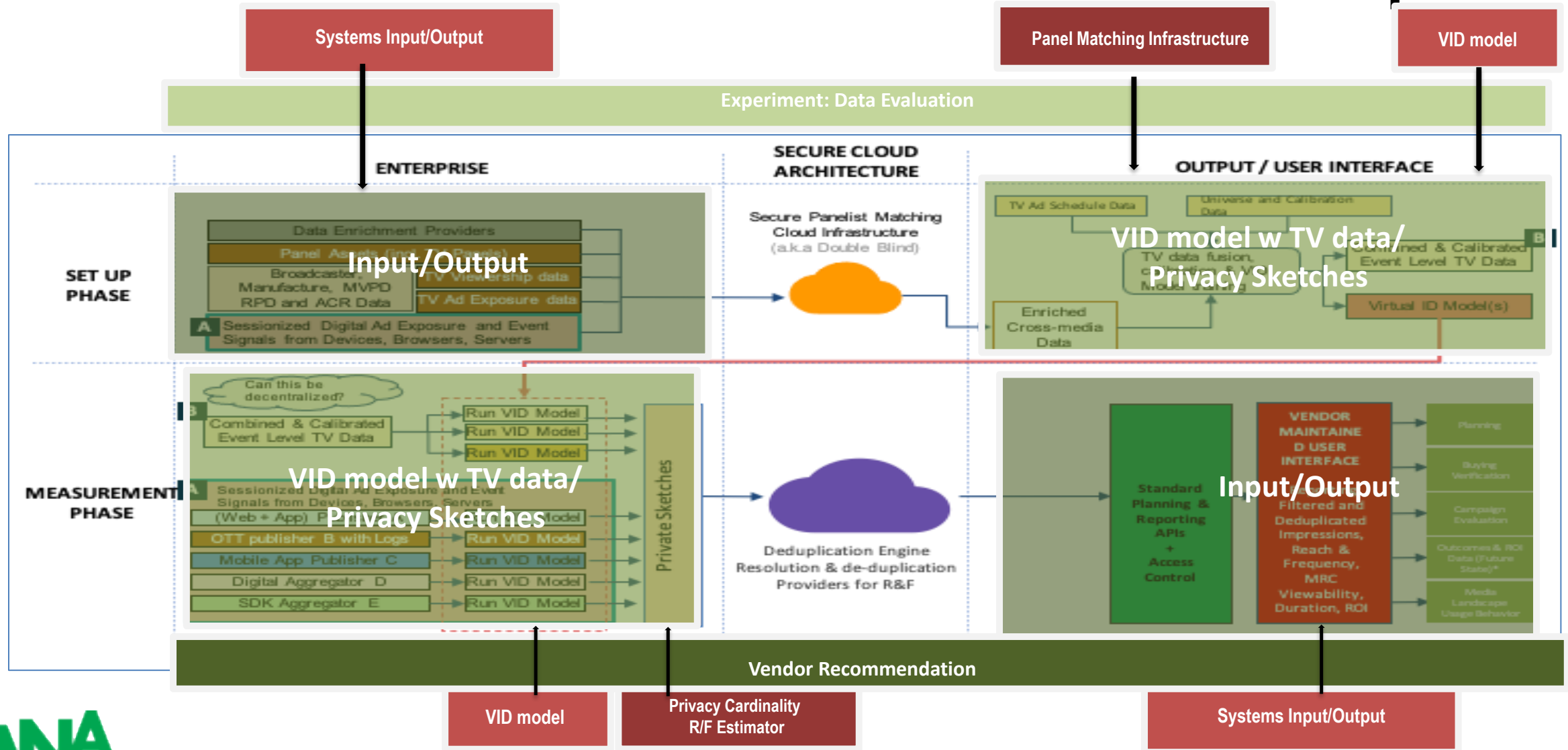


# ANA Cross-Media Measurement Blueprint





# ANA SBPs and Common Connection to Blueprint



# MAKING PROGRESS DEDUPLICATING REACH:

## Update on ANA's Cross-Media Measurement Initiative



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