

## **METHODOLOGY**

# **Mobile Metrix**



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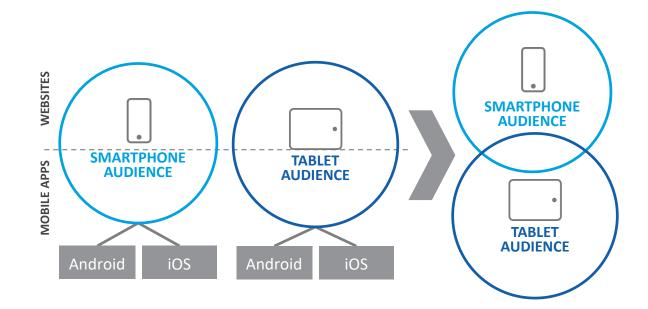
## What does Mobile Metrix Measure?

Mobile Metrix measures the **UK** population connecting to the Internet at least once a month from one of the following mobile devices:

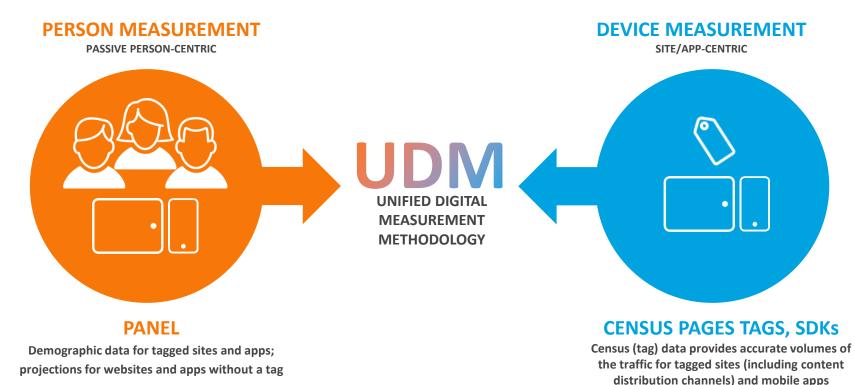
## **Smartphone or Tablet**

- Any location
- Android or iOS
- Web visitation and app usage
- Main users of a phone or tablet device (single user per device)
- Aged 13+ audience for tagged entities;
   18+ for both tagged and non-tagged entities

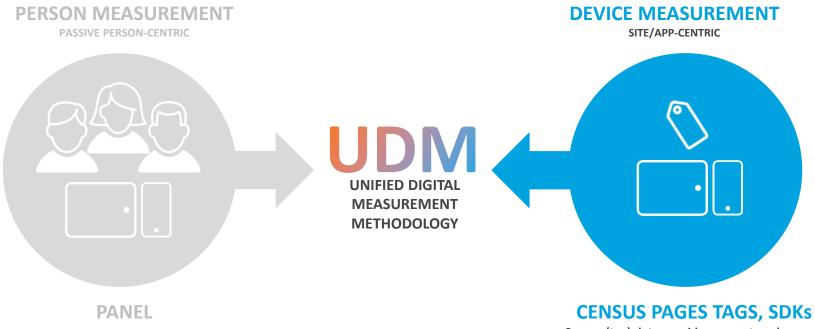
Mobile Metrix Reports on De-Duplicated Audiences Across Mobile Platforms using a Modelling Technique



## comScore Unified Digital Measurement Methodology: the Integration of Tag and Panel Data



## Focus on Census Measurement



Census (tag) data provides accurate volumes of the traffic for tagged sites (including content distribution channels) and mobile apps

Demographic data for tagged sites and apps; projections for websites and apps without a tag

# **Census Data:** Site/App-Centric Measurement Collected via Tags and SDKs



- A tag/SDK is a short code that is placed on a website or in a mobile app and is used to track an 'event' (e.g. page view, mobile app call, etc.)
- Census data reports on complete traffic for tagged content visited from all devices
- Some media provide census-like feeds delivering the same information as census (e.g. 3<sup>rd</sup> party content distribution platforms – Apple News, Flipboard)

Tagging is necessary for third party platform audience measurement (FBIA, Google AMP)

#### Tagging is necessary for Android Tablet audience measurement

**Tagging** brings benefits for accuracy:

- Introduces increased granularity and stability for smaller media entities
- Assures that all activity is credited
- Allows reporting of audiences for entities that do not meet panel Minimum Reporting Standards\*

**Census Data:** Device Platforms Reported in Mobile Metrix



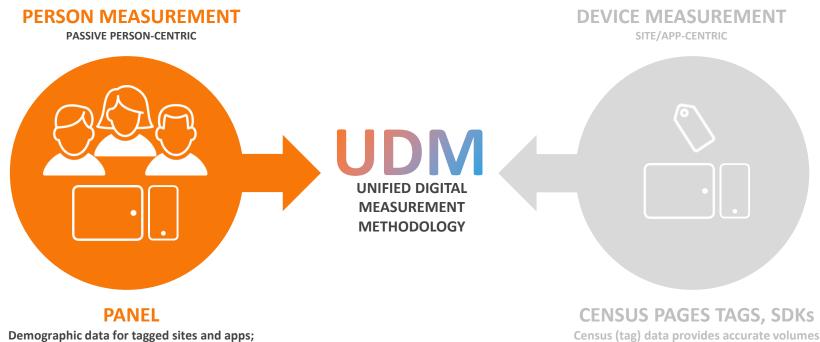
What devices are captured in Mobile Metrix audience data?

DEVICE PLATFORM	CAPTURED BY CENSUS DATA	INCLUDED IN MOBILE METRIX AUDIENCE DATA
Android Phone	$\checkmark$	$\checkmark$
iPhone		$\checkmark$
iPad	<ul> <li>Image: A start of the start of</li></ul>	✓
Android Tablet		$\checkmark$
Other mobile OS & devices		X

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## Focus on Panel Measurement

projections for websites and apps without a tag



Census (tag) data provides accurate volumes of the traffic for tagged sites (incl. content distribution channels) and mobile apps

## comScore Mobile Panels in the UK

- Mobile panels are subsets of UK internet users that installed comScore meters on their mobile devices which track their online behaviour
- Panels are nationally representative and weighted to the universe estimates based on the MobiLens study
- Sample sizes per device (Q3/2018):
  - Total Mobile (all combined) ~ 13k persons
    - Android phone ~ 5.6k persons, age 18+ years
    - iPhone ~ 4.8k persons, age 18+ years
    - iPad ~ 2.6k persons, age 18+ years

### Panel details:

#### Mobile devices

 An assumption of one user per device is applied (the main user concept)

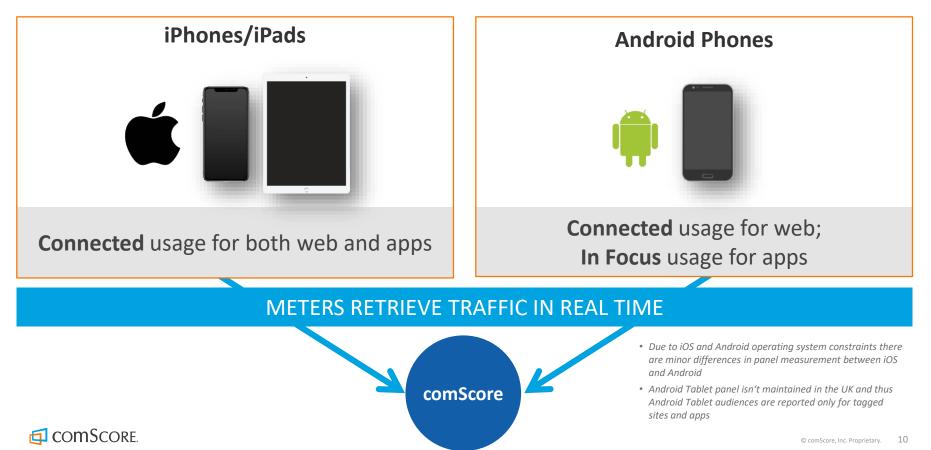
#### Sample is weighted to be fully balanced

- Demographically weighted targets provided by the enumeration study (MobiLens\*)
- MobiLens is weighted based on targets obtained from PAMCo survey
- Android Tablet panel is not maintained in the UK
  - Android Tablet audiences are reported on the basis of census data only\*\*

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#### \* Please see Appendix for details of MobiLens





## **Quality Assurance Processes**

## Invalid Traffic Filtration: Both General and Sophisticated IVT is filtered out

- Bots
- Adware & Browser Hijacks
- Ad Injectors
- Domain Laundering
- Data Centre Traffic

URLs not requested by users are filtered out (e.g. pop-ups, pop-unders, redirects, ad banners)

## Data integrity controls applied to both census and panel data:

 Data collection hourly monitoring, daily processing checks, data variance controls, monthly data quallity assurance processes

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## APPENDIX



## Universe under measurement reported in Mobile Metrix data

UK online users connecting to the Internet from mobile devices at least once a month

Platform	Persons 6-12	Persons 13-17	Persons 18+
Smartphone (All locations)	Not included	Included (tagged content only)	Included (Android and iOS; tagged + non-tagged)
<b>Tablet</b> (All locations)	Not included	Included (tagged content only)	Included (iOS: tagged + non-tagged; Android: tagged only)
<b>Total Mobile</b> (Smartphone & Tablet)	Not included	Included (tagged content only)	Included (tagged + non-tagged; Android Tablets: tagged only)



## Enumeration source: MobiLens study

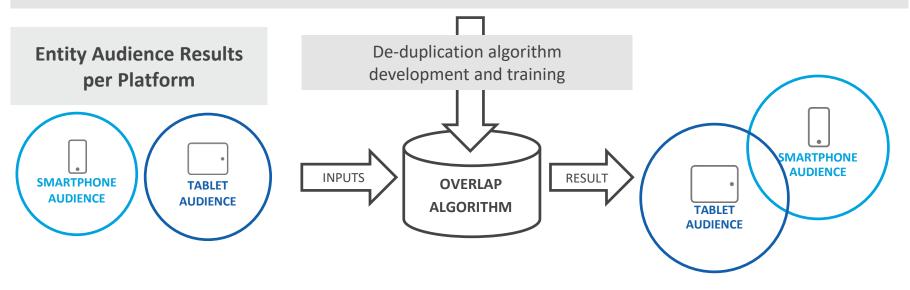
- comScore proprietary online survey
- Nationally representative sample of UK mobile subscribers aged 13+
  - Sample quotas based on UK national census data for age and gender; geographic region balance is monitored during the fielding period
  - PAMCo (http://pamco.co.uk/) is the source of universe estimates and weighting targets for the Great Britain portion of the MobiLens study
  - ICM Omnibus data is the source of weighting targets for Northern Ireland
- 5,000 respondents monthly
  - Mobile universe estimates calculated as 3-month averages

Digital Audience De-Duplication: Overlap Algorithm Informed by Single Source Data

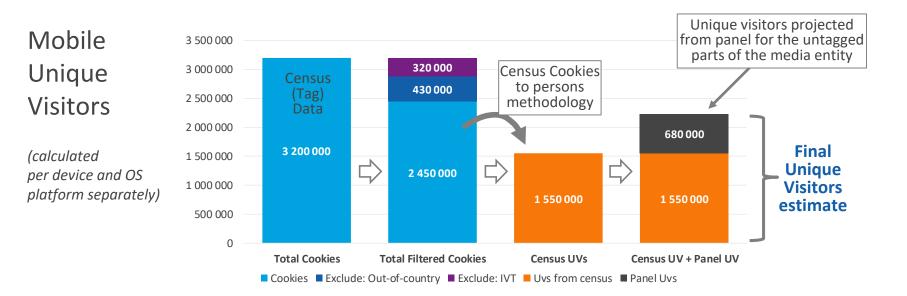


### Single source dataset based on subset of country tag census data

Provides cross-device behaviour observations at an individual person level



Integration of Census (Tag) and Panel Data: Unified Digital Measurement Methodology





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