



Passive Mobile-phone Technology For Audience Measurement

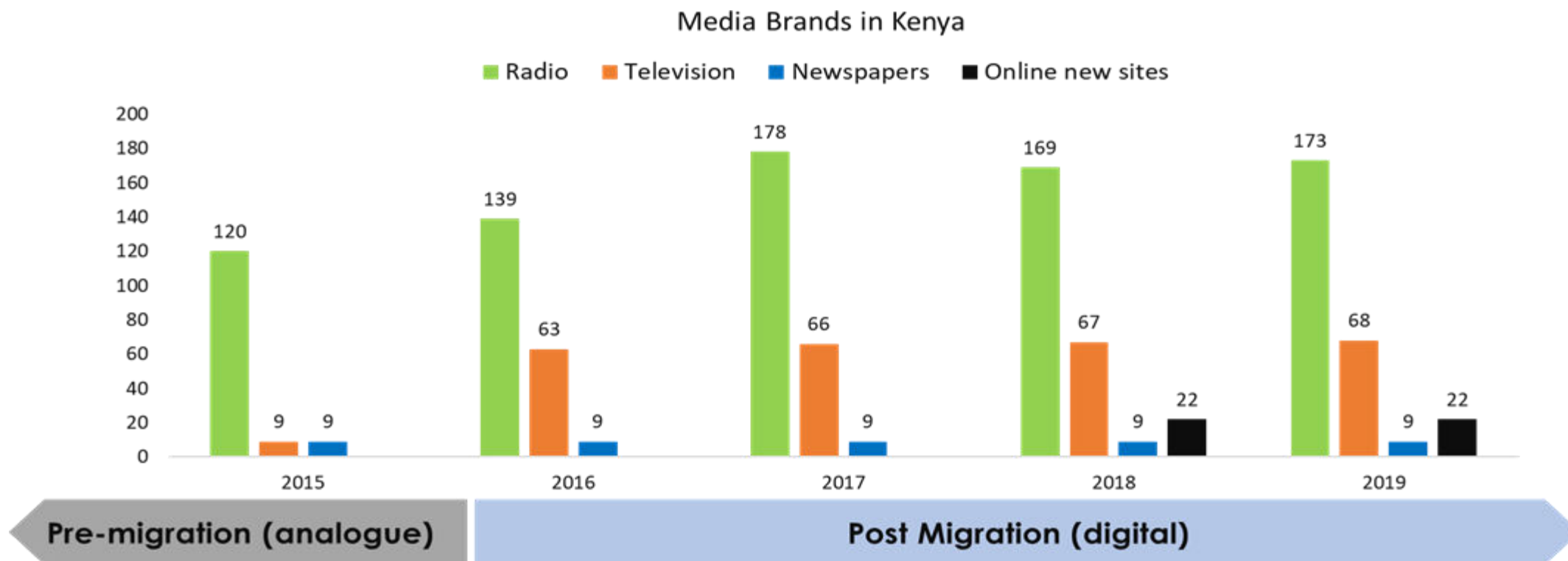
Prepared for PAMRO – 2019 Conference



Dynamic media environment in Kenya

Digital migration: significant increases in TV stations

- ❑ The number of TV stations increased significantly between 2014 and 2015. This is attributed to the digital migration.
- ❑ Increased audiences on TV was driven by availability of more stations and consumption from various platforms – from the set-top-box and online.

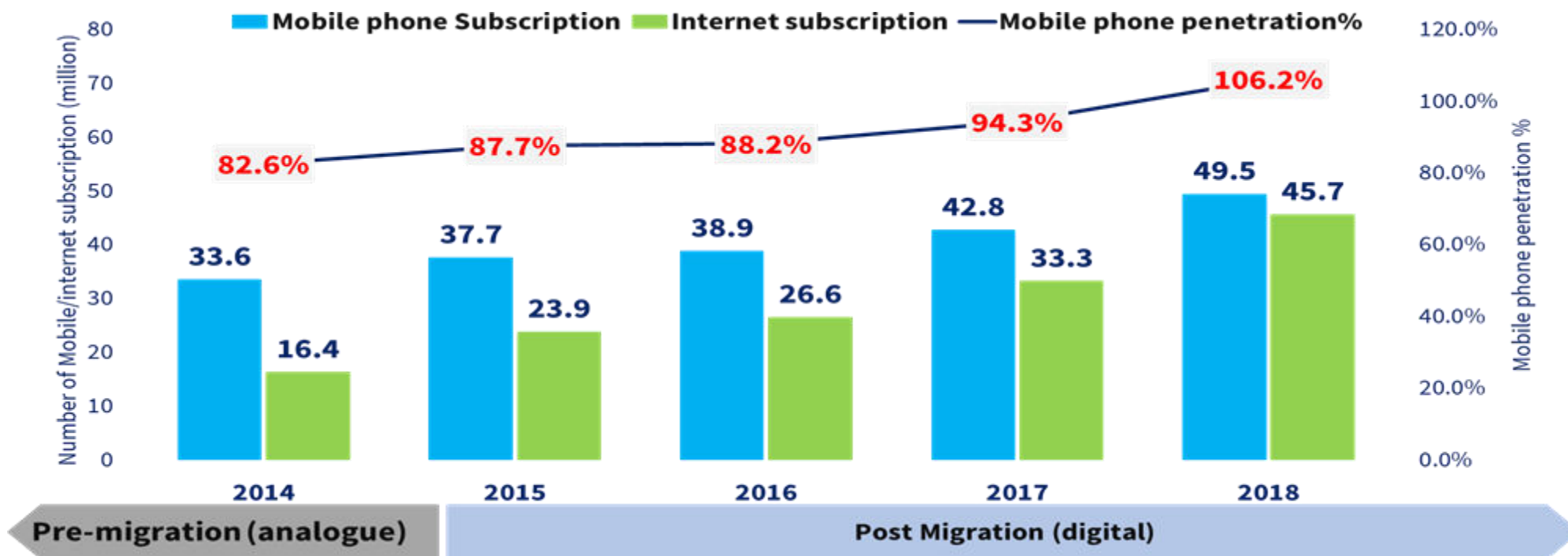


Source: Communications Authority (radio, tv and print data)



Increased mobile & internet subscriptions

- ❑ The data market in the country grew by 173% between 2014 and 2018.
- ❑ Mobile phone is the most available and preferred medium of accessing the internet with over 90% market share.



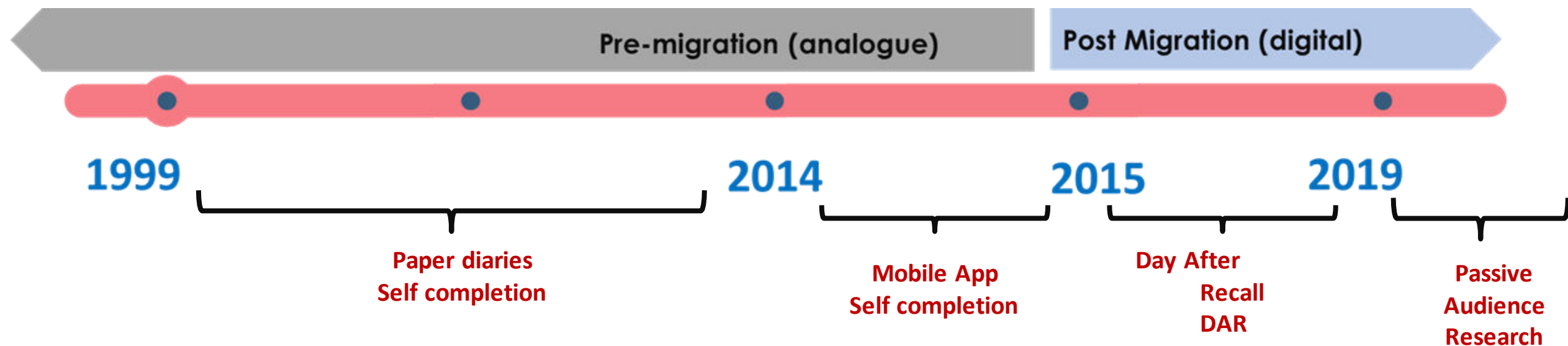
Source: Communications Authority



Historical perspective for audience research

Historical Perspective: Audience Research Methodology

- ❑ Audience research in Kenya has undergone a transformation from self-completion paper diaries to the day after recall.
- ❑ Future of audience research is the PASSIVE



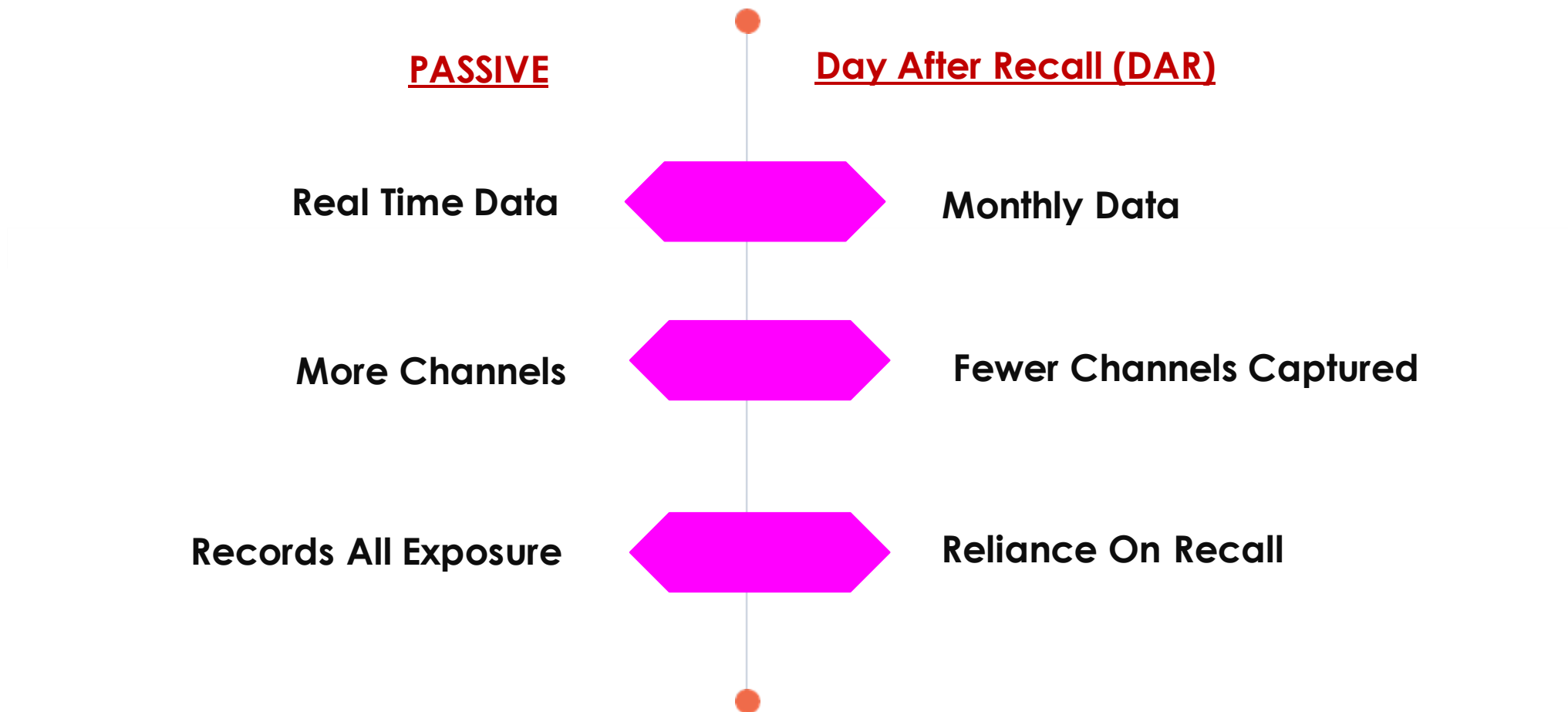
The **dynamic media environment**, calls for modern and more **efficient approaches for data collection** – hence the push for a **passive audience** research methodology.



- ❑ Passive is data collection methodology **without active involvement** of respondents.
- ❑ Passive collects respondents' media consumption behavior **using a smartphone**.



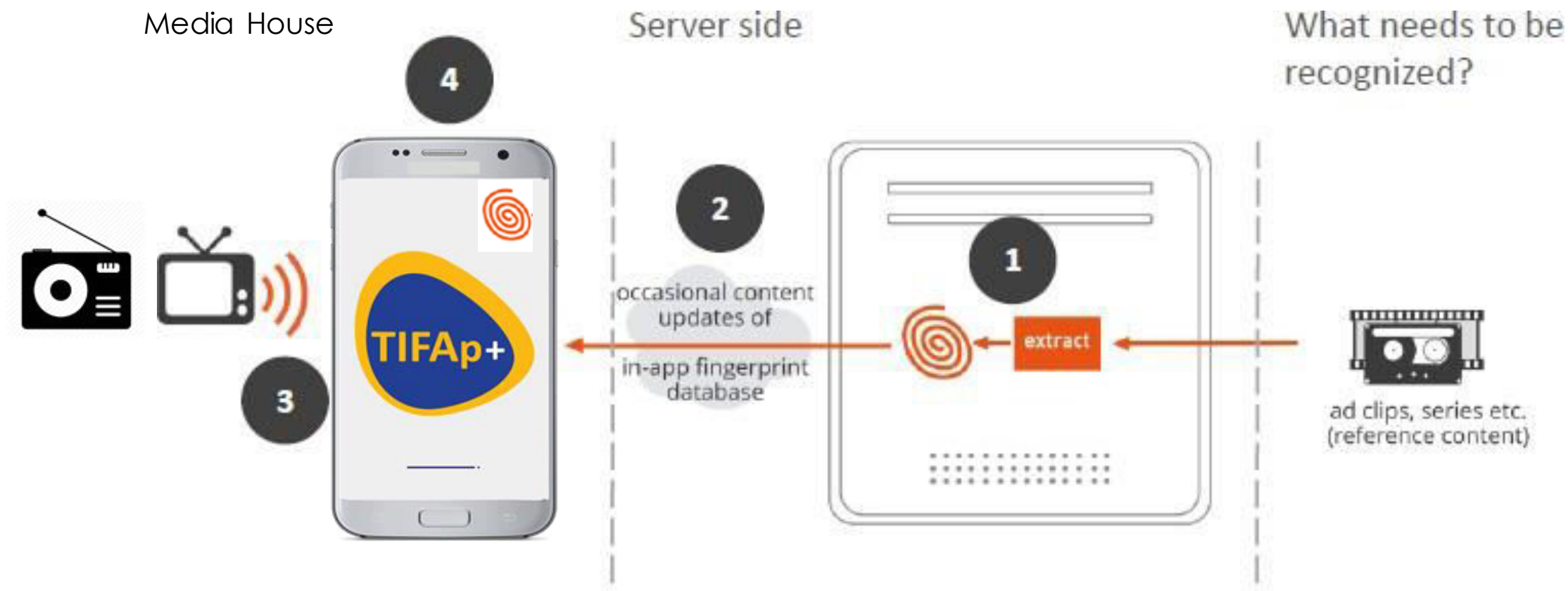
Comparison – Passive vs DAR



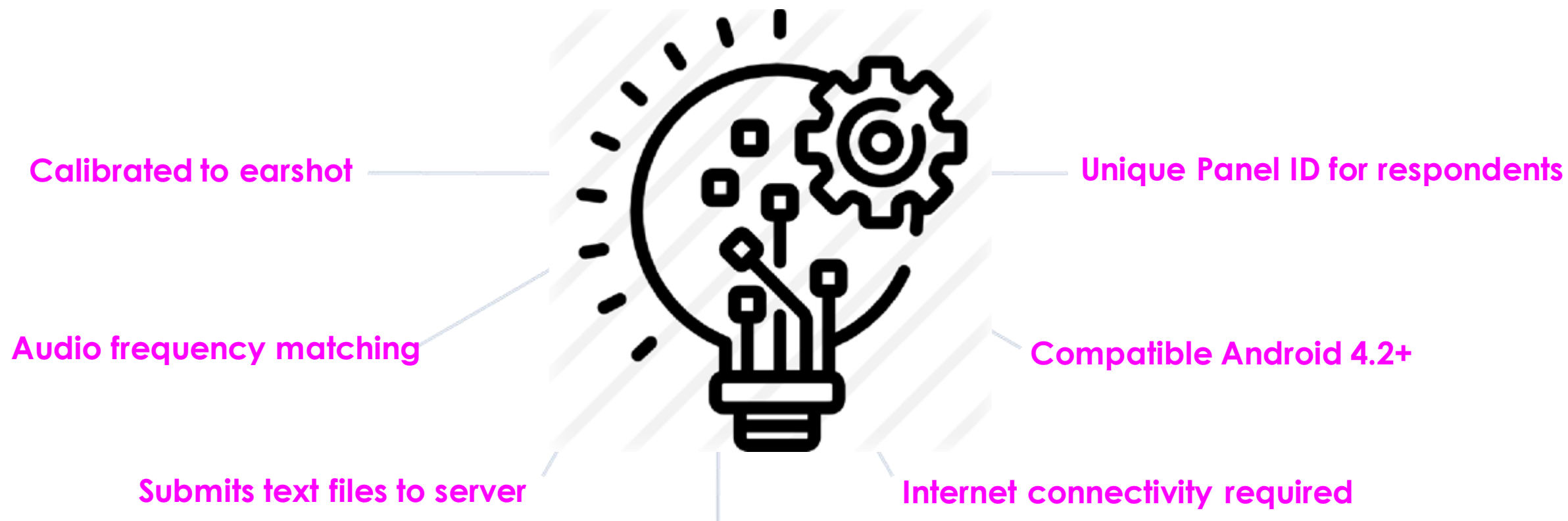


Key features of passive audience technology

Passive Data Collection - How it works



Key features of passive audience technology





Ethics and data privacy

A large yellow arrow pointing to the right, containing the text 'Informed consent' in bold black font.

Informed consent

- ☐ Geo-location mapping
 - ☐ The degree to which researchers can track movement
- ☐ Motion sensors
 - Mobile phone is not in use or in use
 - In a vehicle and not in a vehicle
- ☐ Battery usage



Recruitment of panelists

Recruitment Process



Sample

- ☐ Based on establishment survey 2015



HH visits

- ☐ Screening
- ☐ Demographics



Screening

- ☐ Type of handset
- ☐ Duration in location



Consent

- ☐ Agree to terms in writing
- ☐ Provide unique ID



Install App

- ☐ Confirm if data received in server

Fieldwork challenges & solutions



- ❑ Respondents' mobile phone version
 - Recruitment of panelists with mobile phones
 - Issuing mobile phones to panelists
- ❑ Loss of mobile phone phones
 - Agency to have a pool of phones
 - Oversampling to cater for technology “drop outs”
- ❑ Perceived cost of data bundles
 - Agency to meet cost of bundles
- ❑ Access to internet not daily
 - Panel managers to engage regularly with panelists
- ❑ Misconceptions – listening to conversation
 - Panelist education



FAQs from Panelists

When I am offline, do you get data?

No, but will keep collecting media consumption until when you are next online.

Do you listen to my conversation?

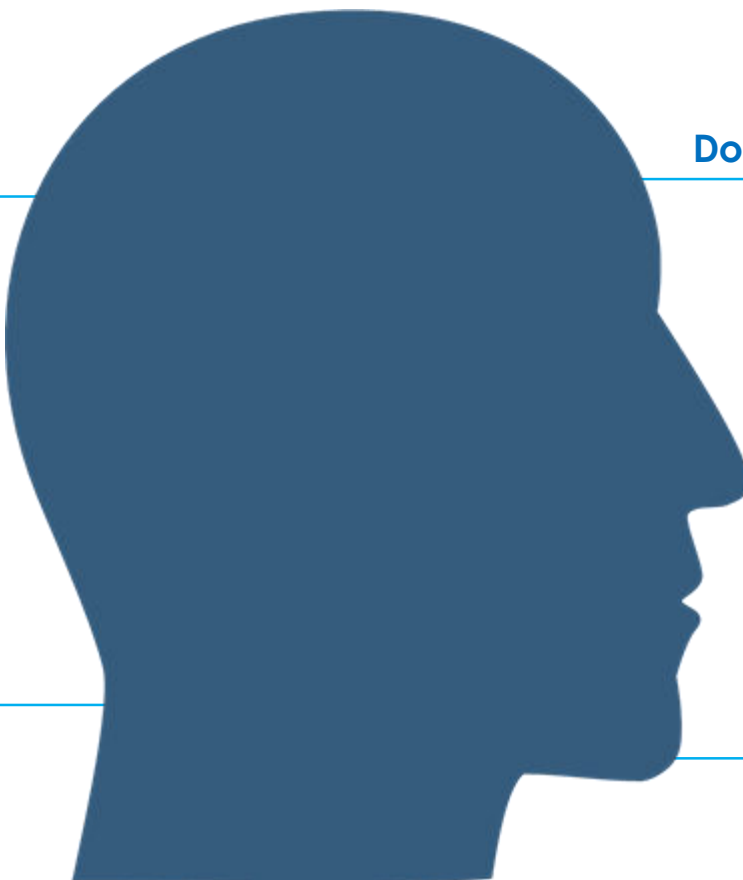
The app does not listen or store any personal information.

Does app use my phone storage?

No, the data is saved in the form of text files.

Does the app use up my data bundles?

The research company has already purchased bundles for the app for reach respondent.

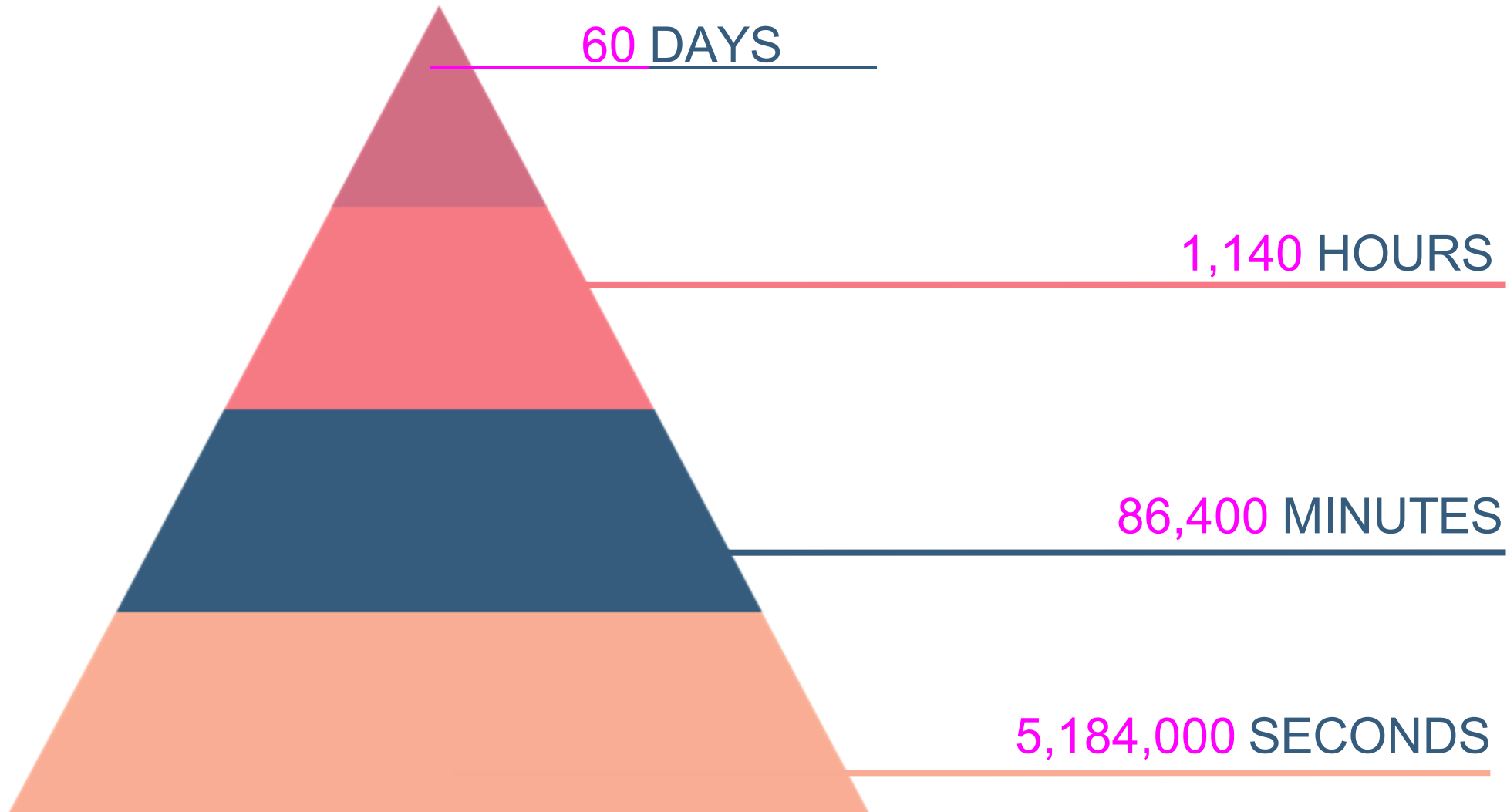




Key Media Consumption Insights

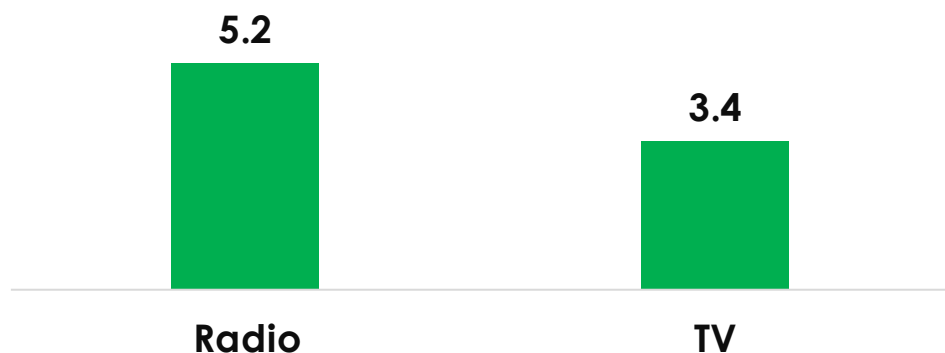


Big Data : April to May 2019

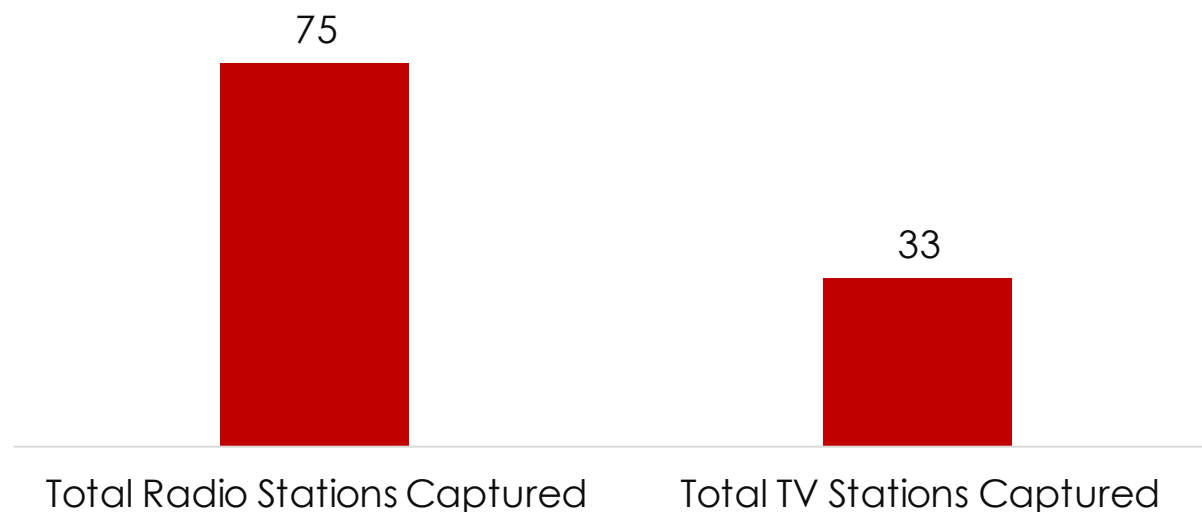


Average number stations : Nairobi

Average number of stations per day

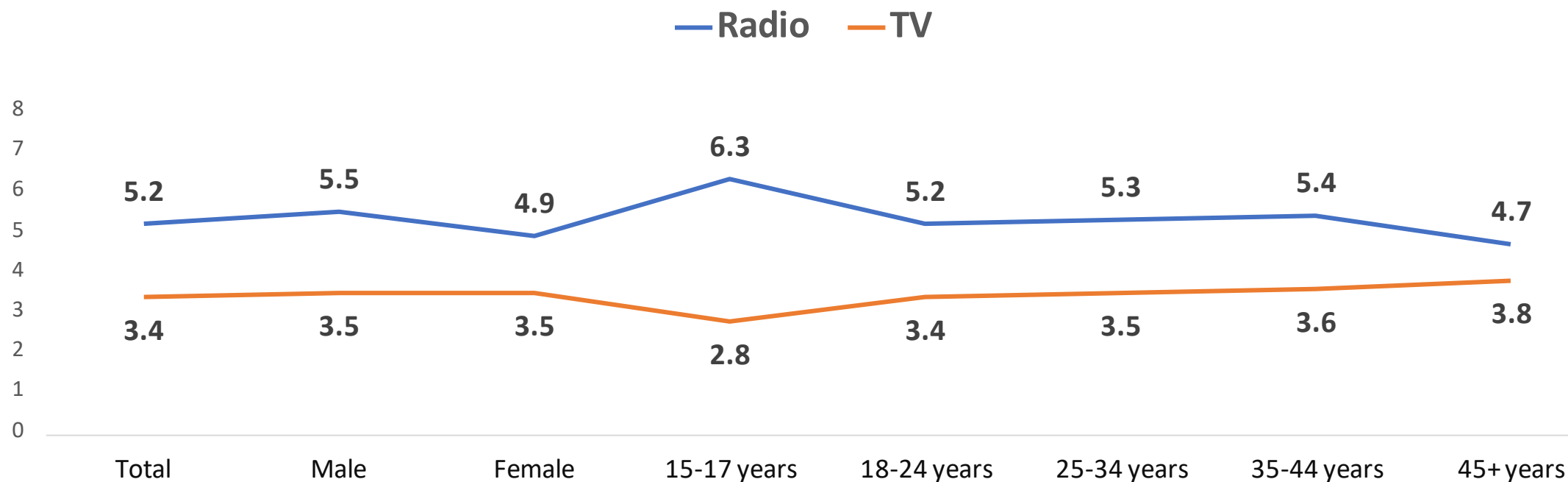


Average number of stations captured for all audiences



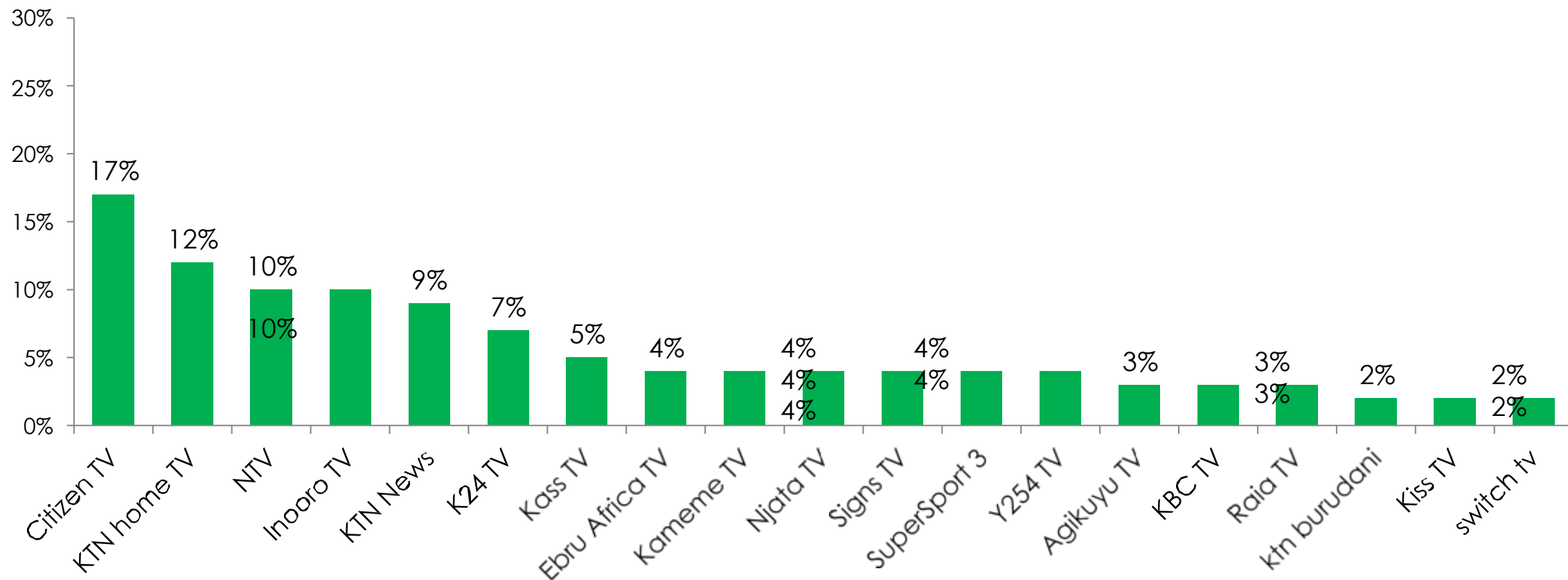
Number of stations captured or tuned into are double what is capture on DAR

Average No. of Stations Per day in Nairobi



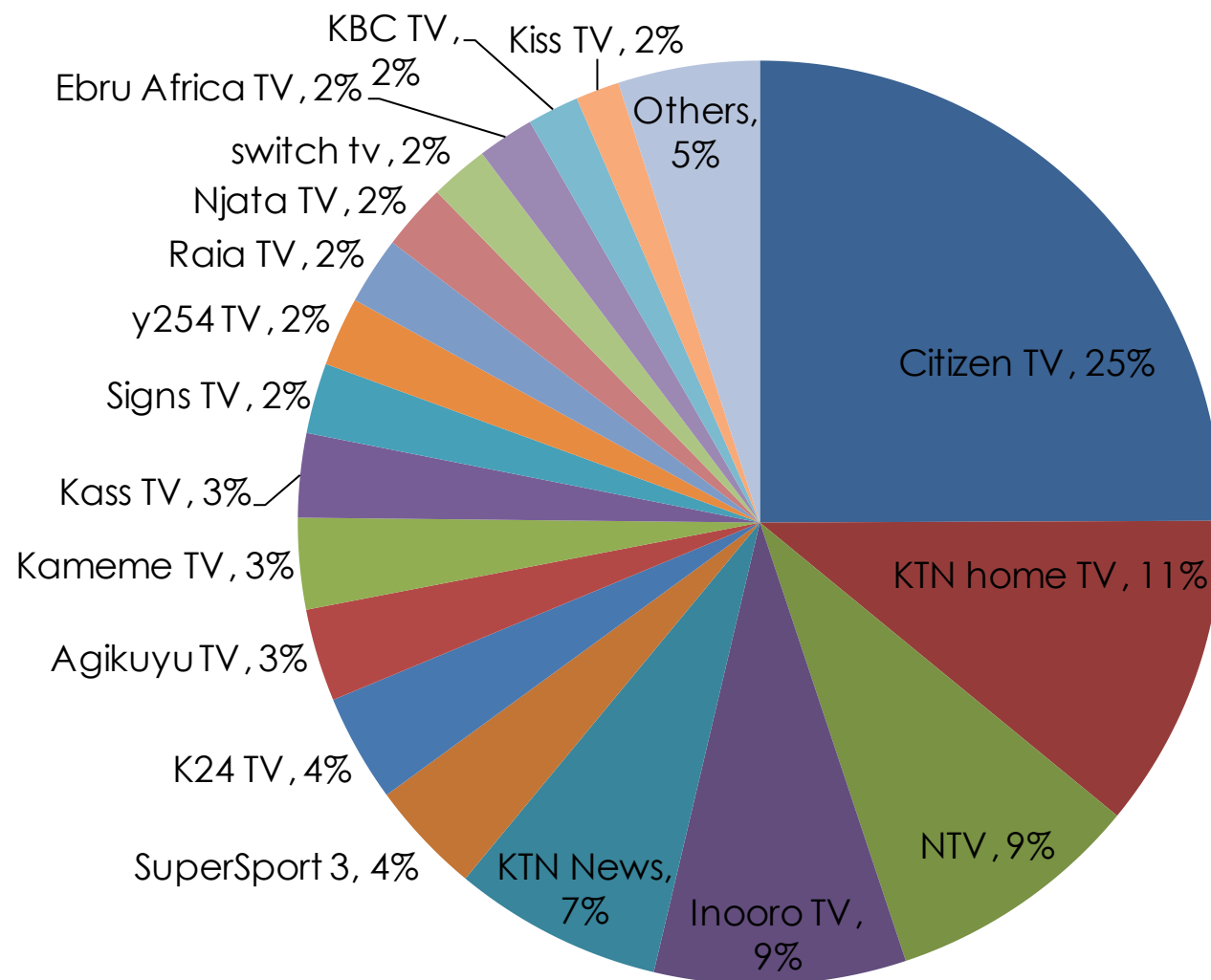
Media planning – spends across more stations

TV Reach: Nairobi Only



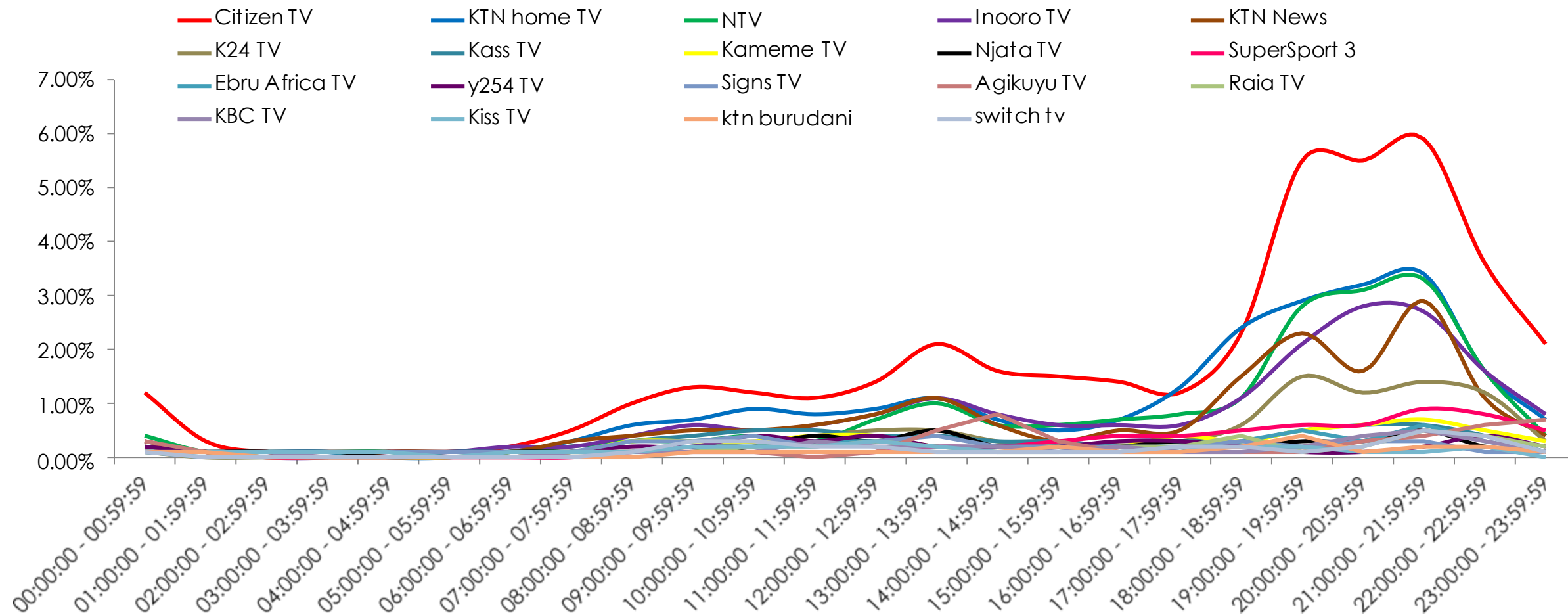
Base: 2.09M (Past 7 days media consumers)

TV Share : Nairobi Only



Base: 2.09M (Past 7 days media consumers)

TV Trends – Week Average : Nairobi Only





Methodological Considerations

Methodological considerations

● Duration for analysis

- ❑ Seconds by second? 15-minute slot? 5-minute slot?
- ❑ Consider delayed transmissions across the country.



● Time shifting media consumption

- ❑ Capturing media consumption past the airing date.
- ❑ Integration of these into audience ratings

Methodological considerations



Geo-location analysis

- ❑ What happens to a respondent who migrates from one region to another?
- ❑ Under which region should he/she be analyzed from?

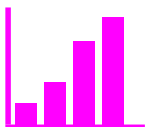
Key success factors for passive technology roll out

Update LSMs



Current LSM's are outdated. An urgent need to update the LSM evaluation criteria

Establishment Survey



Establishment survey is outdated and needs to be refreshed

Costs



Respondents access to mobile phones
Power banks /solar chargers to charge phones

Thank
You!

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