



Anthony Sethill

CEO, Frontier Smart Technologies

Frontier: #1 technology provider in consumer DAB and Smart Radio

80%

years

45m

market share in consumer DAB & Smart Radio

of heritage in DAB technology

units shipped to date

SONY PURE PHILIPS DENON Panasonic















Key messages

1 Radio's strength is based on controlling its own platform

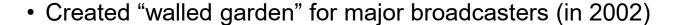
2 In digital age, broadcasters need to be multiplatform

3 DAB is the best place for radio to flourish



The importance of controlling own platform: case study from TV

- In March 2002, pay UK DTT service collapsed
 - replaced by Freeview in October 2002



- ~30 channels on Freeview
- ~200 on satellite and cable
- Broadcasters invested heavily in promoting the platform
- In 2018, nearly 70% of UK households have Freeview





Smart Radio is the ideal choice for listeners today



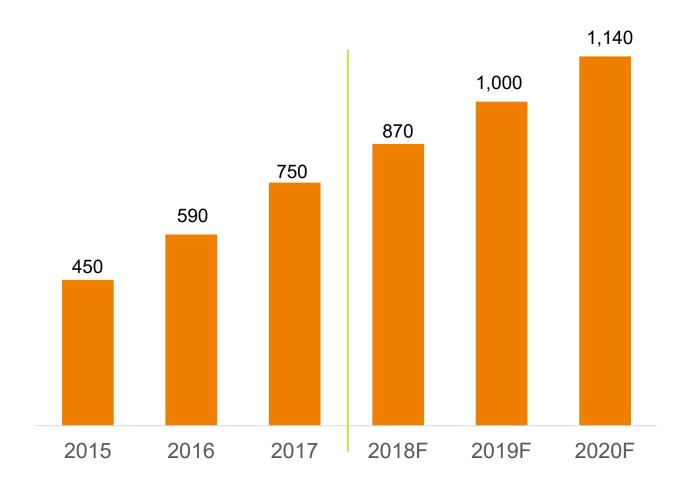
Smart Radio

- FM / DAB / DAB+
- Bluetooth
- Music services (Spotify, Amazon, etc)
- Internet radio & podcasts



Smart Radio (DAB+IP) – fastest growing segment of the consumer DAB market

Smart Radio device annual shipments, thousands

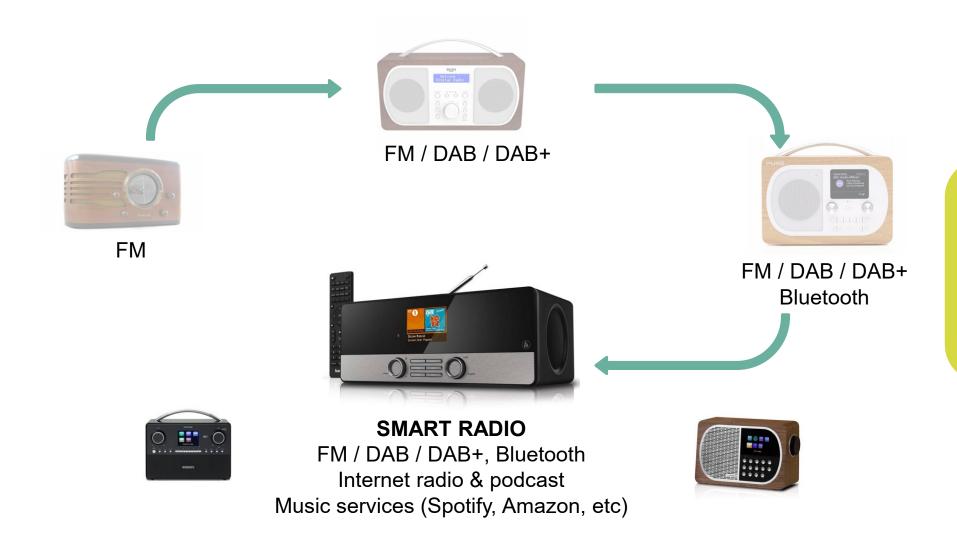


- Smart Radio sales:
 - up 30% a year (2015-17)
 - increase by over 50% in next three years



Source: Frontier Smart Technologies analysis (informed by GfK data)

Manufacturers need to innovate to keep pace

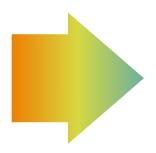


- Devices need to be price competitive
- For some consumers, will need to work with voice assistants



New technology solutions deliver Smart Radio functionality – at lower cost







Radio 2018

DAB / DAB+ / FM Bluetooth

Radio 2020

DAB / DAB+ / FM
Bluetooth
Internet radio
Podcast and Listen-again
On-demand music
Color UI
App control



Amazon has introduced Connected Speaker API



- A shorter, simpler and common intuitive user experience across all connected end devices
- Access to Amazon Music Service contents via an Alexa devices
- "Works with Alexa" without hardware re-design



Latest Smart Radios can be controlled via multiple ecosystems

Smart speaker with Frontier module inside



- Smart Radio controlled by any voice-enabled device with
 - Google Assistant
 - Alexa Voice Service or
 - Apple Siri
- First products in-store H1-2019



Conclusions

1 Audio market is evolving – but important to retain core advantages of radio

2 Smart Radio is a significant opportunity for manufacturers – but innovation is key

Sustained collaboration and promotion will build long term success and create the conditions for DSO



Thank you

