Technology of Broadcast Radio

Nick Piggott, Project Director, RadioDNS

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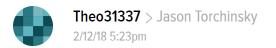
♠ > News

Radio will never die as long as there are lazy listeners like me around



ELEANOR DOUGHTY

18 JUNE 2018 • 2:25PM

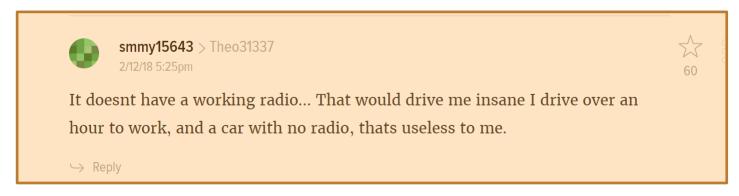




"2500 miles on my new Jeep and it's pretty much useless..."

Not having a few features doesn't make the car useless. It's ridiculous how people put more focus on the peripheral features of the car than the actual car itself.

 \hookrightarrow Reply



A listener's expectations are shaped by the media experiences around them Distribution Experience

Device

Isolated Markets, Little Media Choice

TOWER 10 1042295 Bk

Connected Markets, Infinite Media Choice

AM

FM



DAB+



Big Reliable



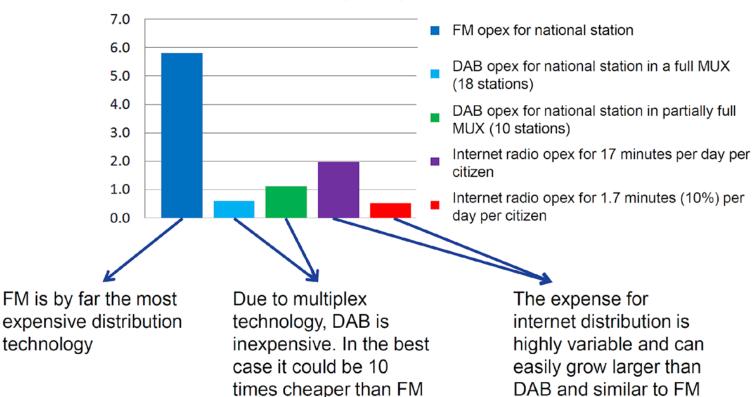
How does radio compete with "infinite"?



Digital Radio

Increases consumer variety New stations ≠ More competition 5x stations ≠ 5x cost Costs < FM and < Internet

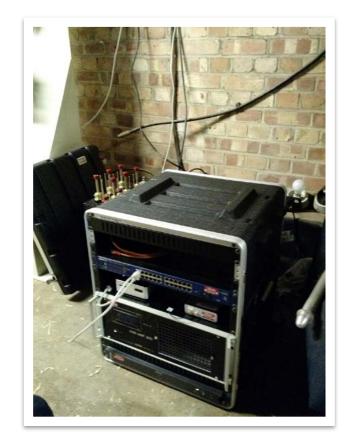
RADIO DISTRIBUTION COST ANALYSIS



OpEx comparison in M\$

Low Cost Digital Radio

Open Digital Radio – Open Source DAB transmission www.opendigitalradio.org Operating across Europe Fully featured but low cost UK trials leading to 100+ licences



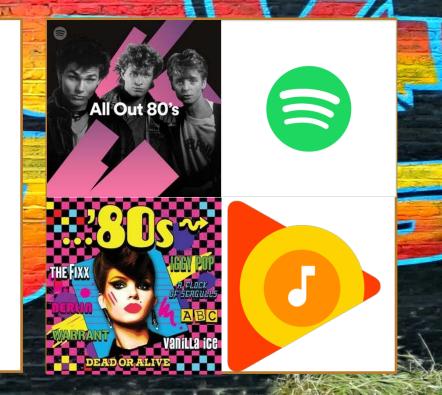
Absolute Radio 80S

The 80

7.257m hours

heart⁸⁰s 5.

5.744m hours



Targeted

Interactive



Valuable

Broadcast



Or



Internet?

Broadcast and Internet!

Hybrid Radio



Deliver audio using broadcast Reliable, ubiquitous, free, economic

Enhance radio using IP Add content, metadata & interactivity





Improve the experience of radio

Improve the value of radio

Interactivity

Improve the variety of radio



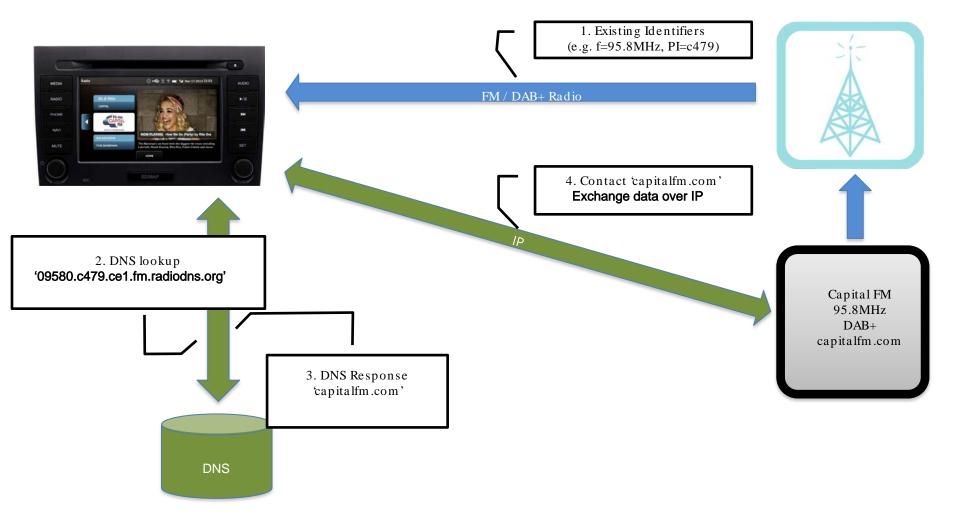
Reduce distribution costs

Improve reception quality

Racio (DNS) HYBRID RADIO

The RadioDNS Ethos

- Hybrid Radio that is as open as broadcast radio
- Open Standards and Interoperability **protect**
- broadcasters and manufacturers
- Durable our technology will last for ever
- We are a **not -for -profit membership** organisation



Works Best

Looks Worst

Presence

Prominence



Metadata over IP

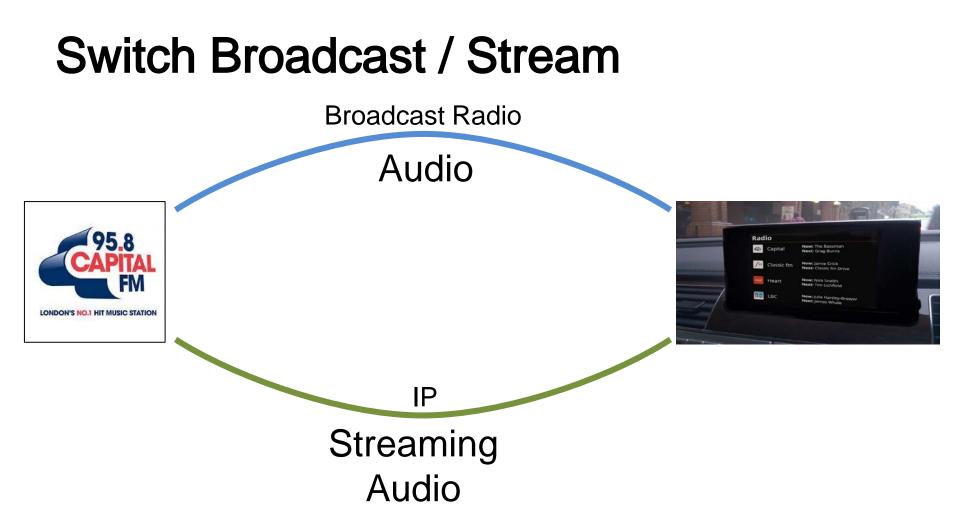
Describing your station accurately Name, description, logos, frequencies Describing your programmes accurately Names, times, presenters, synopsis, keywords Live and On -Demand / Podcast Makes radio searchable Essential for accurate voice control

Station Logos









Visuals Making radio look great on high quality screens

This Feeling

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Screens - Getting Better

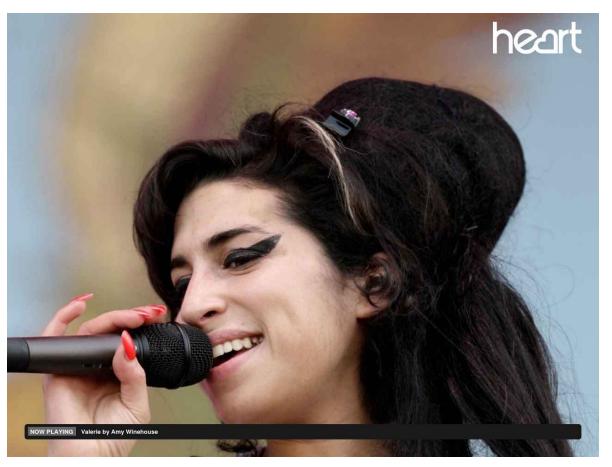
'Standard' Resolution (320px x 240px) is far too small
Dynamic Resolution is quite easy to achieve over IP
(e.g. HTML5 and phantom.js)

Visuals can also be used on other platforms

(e.g. Apps, On-line, Connected TVs)



320px x 240px



1280px x 960px

Interactivity Capturing interest in radio

EMO

TAG

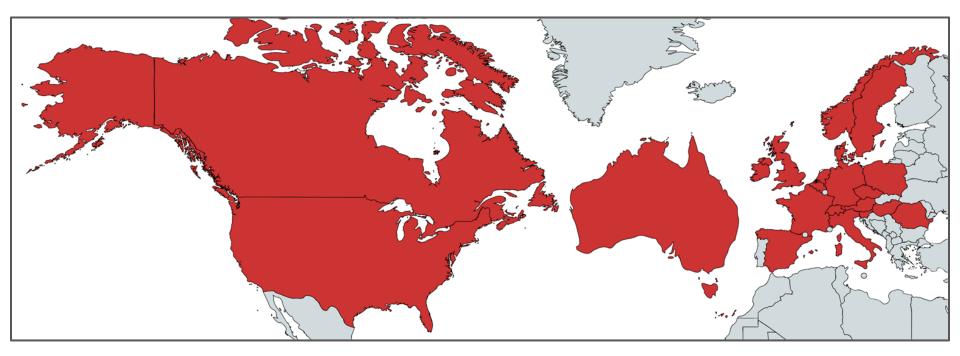
Interactivity over IP

Radio generates peaks of interest

Capture, measure and respond to listeners' interests Physical button – **push when you hear something** Speech command - "OK Car, this is **interesting**" **Insight** to share with programmers and advertisers.







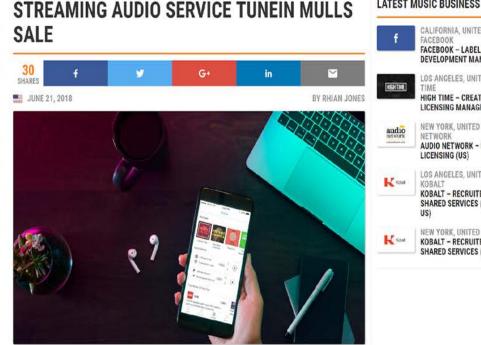
Q SEARCH ...

MUSICBUSINESS WORLDWIDE Gatekeepers

JOBS PODCAST

ADVISORY BOARD

ABOUT -



Online radio service TuneIn is exploring a possible sale after enlisting global investment firm Liontree Advisors to help it explore strategic options.

The firm was valued at \$500 million after raising \$50m last year to fund programming

LATEST MUSIC BUSINESS JOBS

CALIFORNIA, UNITED STATES FACEBOOK - LABEL MUSIC BUSINESS **DEVELOPMENT MANAGER (US)** LOS ANGELES, UNITED STATES | HIGH **HIGH TIME - CREATIVE SYNC** LICENSING MANAGER (US) NEW YORK, UNITED STATES | AUDIO

AUDIO NETWORK - MANAGER, MUSIC

LOS ANGELES, UNITED STATES **KOBALT - RECRUITER, MUSIC &** SHARED SERVICES (CONTRACT ROLE,

NEW YORK, UNITED STATES | KOBALT **KOBALT - RECRUITER, MUSIC AND** SHARED SERVICES (US)

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Summary

Summary

Broadcast is a **relevant**, scalable, technology Reduces risks of costs and **Internet gatekeepers** Digital radio delivers variety that reduces the draw to streaming Cost of digital radio are **plummeting** Hybrid Radio is a **complimentary**, powerful, addition to broadcast

Technology of Broadcast Radio

Nick Piggott, Project Director, RadioDNS

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