Radio

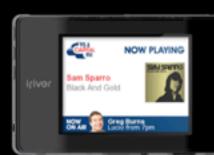
an introduction







•







Internet Streaming listening on a computer, or via a wifi radio

2.2%



Digital Television selected stations available as additional channels on TV systems, many with visual accompaniment

3.6%



DAB Digital Radio

station-name tuning, pause/ rewind, and additional choice using new broadcast technology and frequencies

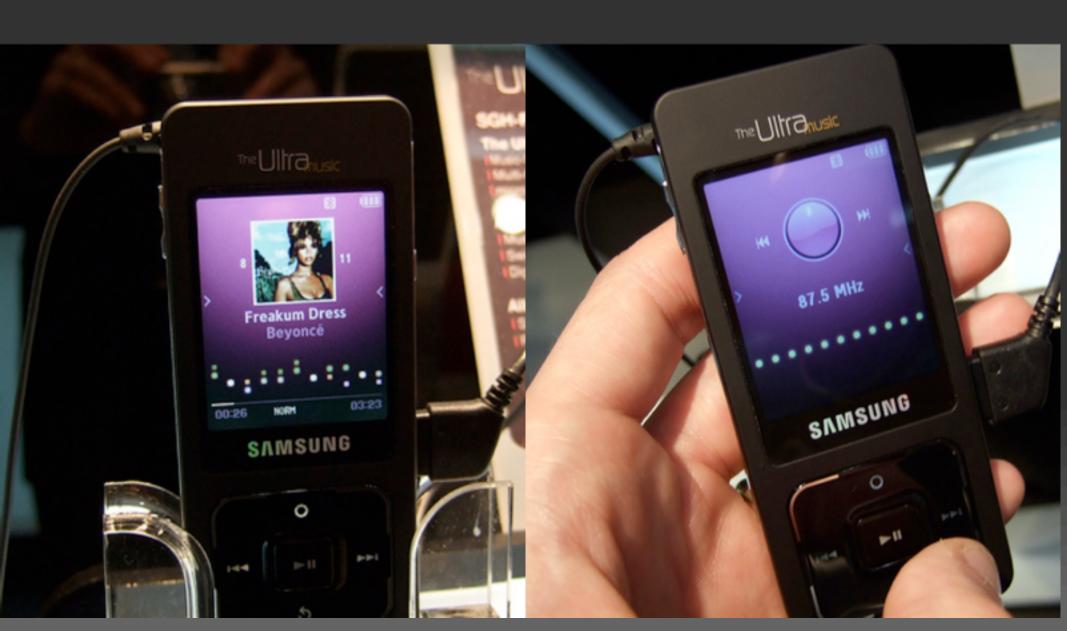
13.3%

The future of radio is multi-platform

- Digital Radio
- Radio over the TV
 - Internet Radio

BROADCAST radio is the primary part of our multiplatform future

We risk being left behind if we don't invest in more functionality



More functionality: like...

"I like this song, remember it"
"Subscribe to this show's podcast"
"Can I text the studio?"
"Give me more info on this news story"
"Let me contact this advertiser"
"What does this DJ look like?"

Connected radio devices are everywhere





"Connected radio devices" means that for...

"I like this song, remember it"
"Subscribe to this show's podcast"
"Can I text the studio?"
"Give me more info on this news story"
"What does this DJ look like?"

... we can use web services

Broadcast over radio Visuals and data over the internet

...but your radio needs help

"I am listening to TripleM on FM" and "I can connect to the internet"

"I do not know how where TripleM is online."

"I do not know how to connect to its web service."

"So I cannot get any metadata" "Help me. I'm only a radio."

It makes sense to use broadcast radio for audio

It makes sense to use internet for additional, personal, flexible, metadata; and for a back channel

How do we link the two?

How do we tell a connected radio where to find a radio station's web services?

Obvious answer

Transmit metadata containing the address of this station's webservice

A new metadata field in broadcasts means...

Infrastructure Implications

- 10,000+ of FM transmitters / RDS encoders
- 50+ DAB multiplexers

Standards Implications

• DAB, FM RDS, HD Radio, Internet Streaming...

We're already broadcasting metadata!

FM RDS: (ECC) + PI

DAB: SCIDs + SID + EID + ECC

HD Radio: "FCC Facility Code"

These broadcast parameters, that we are already broadcasting alongside our radio stations, are specified to be unique for each and every station

What the radio can see





Extended country code **CE1**Programme identification **C586**FM frequency **95.80**

Extended country code **4e1**Ensemble identifier **4001**Service identifier **42f1**Service component identifier **0**





What RadioDNS does

09580.c586.cel.fm.radiodns.org

I
rdns.musicradio.com

0.42f1.4001.4e1.dab.radiodns.org

\$
ssatr.ch

Current and potential services

- RadioVIS: "visualised radio" adding glanceable pictures to radio on all radio platforms
- RadioEPG a fully-featured electronic service and programme guide, encouraging discovery and enhancing listening choice
- RadioTAG allowing the listener to display interest and interact with elements of programming, while acknowledging the secondary nature of radio
- …and your idea too



MORE

Radio (DNS) radiodns.org

Radio DNS is a technical collaboration between the BBC, Global Radio (UK), and over 100 broadcasters worldwide





















sag ssa idée suisse

