

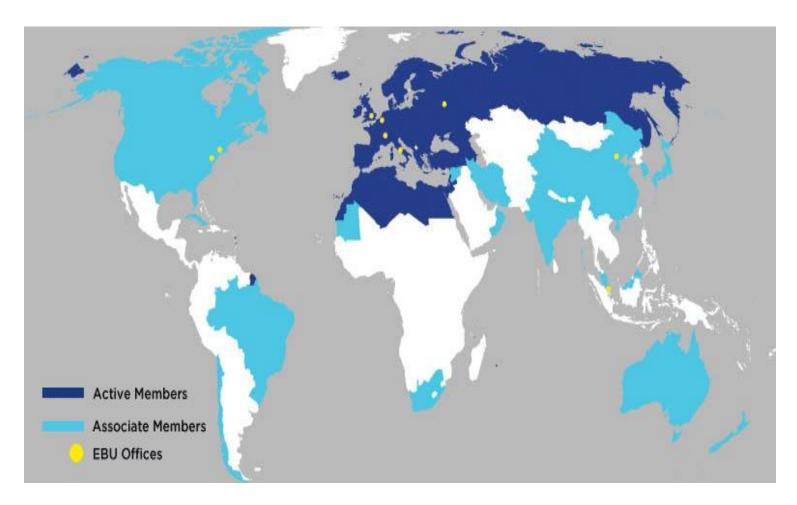
A RADIO VIEW FROM THE EBU

SIMON FELL
DIRECTOR OF TECHNOLOGY & INNOVATION, EBU

5 NOVEMBER 2013 19TH WORLD DMB GENERAL ASSEMBLY, AMSTERDAM, NETHERLANDS



THE WORLD'S FOREMOST ALLIANCE OF PUBLIC SERVICE MEDIA



- 74 Members in 56 countries in Europe & beyond
- 35 Associate Members in 21 countries



EUROPEAN BROADCASTING UNION

- 1 billion people, ~30 million km², ~1.26 billion mobile phones (1)
- All of them have radio services in AM/FM, ~900 members' radio channels
- Digital Radio is being deployed in Belgium, Czech Republic, Denmark,
 Germany, Ireland, Italy, Malta, Netherlands, Norway, Sweden, Switzerland,
 & UK
- 12 countries, potential of 305 million people (assuming 100% coverage)
- Challenge to migrate all EBU members countries from analogue to digital
- DVB-T deployed in 41 members countries, potential of 870 million people



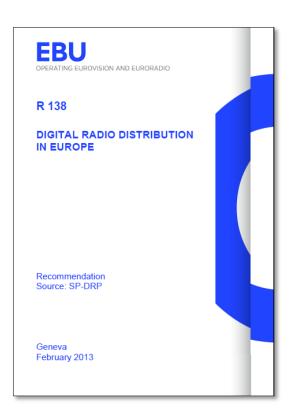
(1) Source: World CIA Factbook

EBU RECOMMENDATION R 138

- Objective: Set the standards for Europe

Recommends:

- DAB+ for immediate deployment. VHF Band III
- DRM when DAB+ is not applicable. AM bands, Band II
- Enhanced features with text, images, programme guides
- Hybrid Services (RadioDNS) alongside broadcast
- A co-ordinated strategy for FM switchover can be beneficial





HYBRID DIGITAL RADIO

RECEIVERS















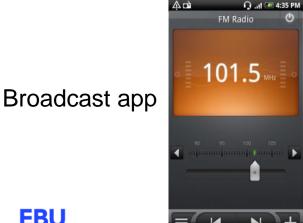




RADIO CHALLENGE ON SMART PHONES











Hybrid Radio app

Standardised **Automatic Service Following**

Enhanced services

Pre-installed on the device





HYBRID DIGITAL RADIO API FOR PHONES

Hybrid Radio app

Radio abstraction layer

Broadcast Radio Tuner

Cellular Modem

ID

- Abstracted APIs
- 'App-friendly'
 - Scan
 - Services List
 - Event
 Information

DAB

FM/HD

DRM

IP

UNIVERSAL SMARTPHONE RADIO PROJECT

Improve access to, and experience of radio in <u>smart phone</u> handsets around the world by <u>developing and supporting a global radio solution</u> delivered via open hybrid broadcast-internet protocol standards and supported by terrestrial radio broadcasters in a number of different countries.

Memorandum of Understanding (MoU) being signed by broadcasters in Europe, US and Australia



EURO-CHIP INITIATIVE

Euro-Chip is not a silicon chip

Marketing initiative from Radio directors in Europe to push for free-to-air broadcast and tuner integration in consumer devices

Memorandum of Understanding (MoU) signed by major public service broadcasters to support the initiative

Promotion to Device manufacturers, Car industry and Mobile Network Operators (MNO).









PERATING EUROVISION AND EURORADIC

















Digital Radio week: 10-13 Feb 2014

RadioHack 10-11 Feb 2014

Digital Radio Summit: 12 Feb 2014

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