



DAB+ Development and growth

WorldDAB Spectrum and Network Implementation Committee



- Monitors and lobbies to ensure frequency availability for DAB+
- Provides guidance on DAB network implementation
 - How to build a transmission site
 - Multiplexing and sound processing
 - Monitoring and signal distribution
 - Data service implementation



DAB+ firmly established as core future platform for radio in Europe

Established On the move

Trials



National launches

Germany: 2011

Netherlands: 2013

• Italy: 2014

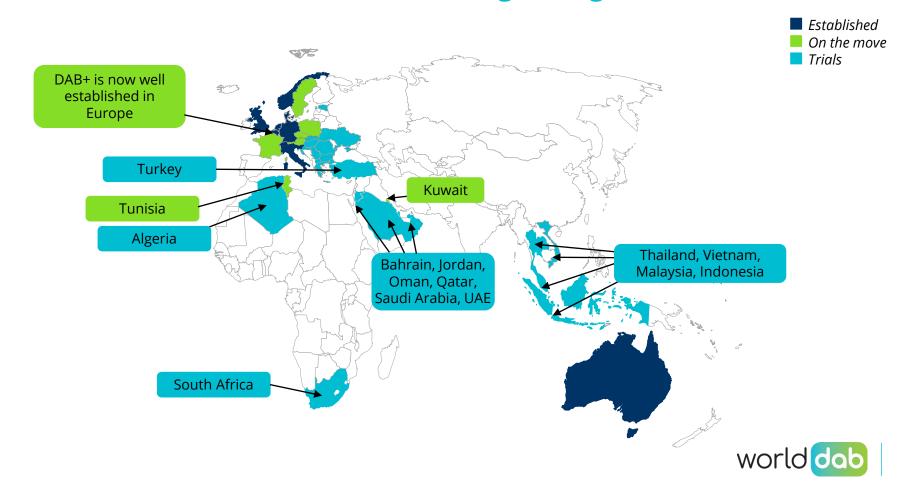
Slovenia: 2016

Belgium: 2018

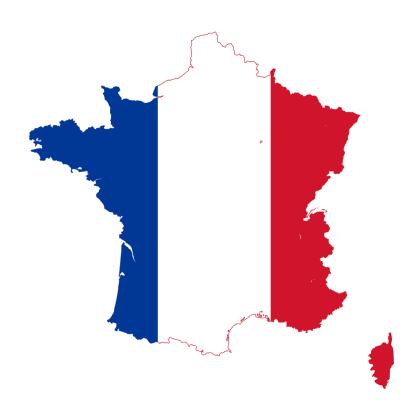
• Austria: 2019



Around the world, interest in DAB+ is growing



France: DAB+ goes national



- 25 services on national DAB+
- Launch 12 October 2021



Germany: private mux for North Rhine-Westphalia



- 18 million population
- Launch 29 October 2021



First countries switching off FM



Norway: 2017

Record listening July 2020



Switzerland: 2024



Growth in Western Europe



UK:

68% of listening is digital



Italy:

Expansion of local muxes



Belgium:

Planned expansion of local services



Netherlands:

3rd national mux April 2022



Progress in Central and Eastern Europe



Coverage extending to: 80% and 83%



National muxes move to regular status



Drivers of growth



Further progress is expected – driven by the EECC

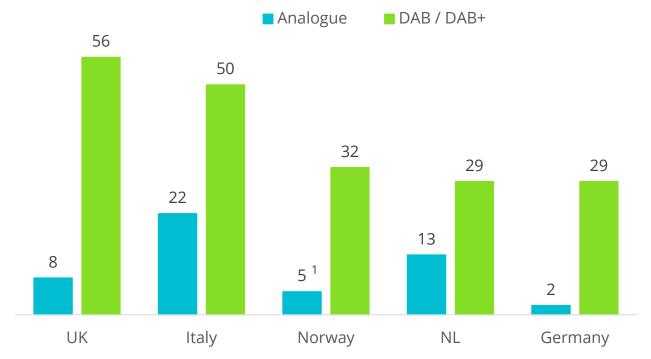


- European Electronic Communications Code (EECC) effective from 21 December 2020
- All new car radios in the EU need to have digital terrestrial radio



DAB+ offers greater choice – on average, six times as many services as FM

National radio services





DAB offers clearer sound - particularly where FM is overcrowded





DAB is the green solution



- DAB+ consumes significantly less energy than FM
- BBC study shows DAB is 33% more efficient than FM¹

Digital radio's green credentials



- DAB+ more energy efficient than FM and IP
- Reports
 - UK: 2020
 - Germany: 2021









For broadcasters, DAB+ preserves core strengths of traditional radio

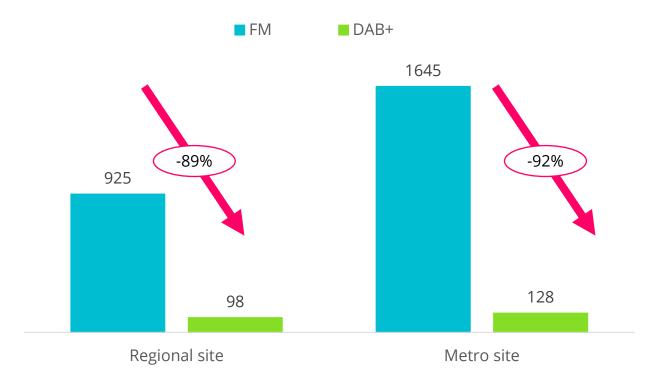


- Free to air
- No 3rd party gatekeeper
- Reliable in times of emergency



DAB+ offers lower distribution costs

Annual cost to broadcasters of transmission per service¹, \$k





DAB+ receivers – rapid growth driven by affordable prices



- Prices from EUR 20
- Strong growth in major markets

- Italy: +94%

- France: +70%

- Germany: +26%

- Belgium: +39%

- NL: +21%

- UK: -16%



Marketing: international DAB+ logo and brand guide Introd

Introduced 2018







What are the commercial implications?



Listeners value choice

22 million people

in the UK, listen to services not available to them on analogue radio*



Audiences drive commercial revenues – UK up over 30% in nine

Years UK radio advertising revenues, £ million



Source: Radiocentre



Opportunity to innovate: brand extensions





60s Absolute 70s Absolute Radio

Absolute

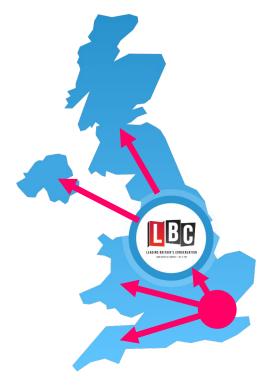
COUNTRY

Audience has tripled in seven years



Opportunities to extend reach

LBC expansion – from London to UK



Analogue

- LBC for 40 years, a London radio station (news / talk)
- Audience 2014: 1.1 million

Analogue plus digital

- February 2014 launched on national DAB+
- Audience today: 3.3 million (3x)



Source: RAJAR/Ipsos MORI/RSMB.

New business models



 Waitrose & Partners: official sponsor of The Graham Norton Radio Show on Virgin Radio

Non-traditional model

- no ad breaks
- food ideas and inspiration
- good demographic fit (ABC1) / shared brand values
- Partnership conceived and brokered by Manning Gottlieb OMD and Virgin Radio UK



Visual advertising via DAB+



Switzerland 2020

- Display ads streamed onto screens of
 - DAB-enabled car displays
 - DAB home radios with displays
- Advertising image appears on the DAB display - regardless of radio station being played
- Aim: to reach all car drivers and passengers in Switzerland
- Example: Lattesso coffee
- Collaboration between ad agency TheIndustry and network operator

Visual advertising via DAB+







Germany 2020

- Hesse private broadcaster FFH launches Visual Spots on DAB+
- While audio spot is playing, retailer's logo appears on car radio display
 - synchronised with audio commercial
 - increases impact of messaging¹
- Technology developed in-house
- Ads are part of FFH visual radio offer also includes weather icons, traffic info





DAB+ in cars

2021 Car Buyers Survey

CAR BUYERS SAY BROADCAST RADIO IS A MUST Almost all in-car radio listeners say a broadcast radio tuner should be standard equipment in every car 89[%]86⁸85⁸ When considering which car to purchase or lease, radio is the most important audio feature to have, ahead of USB ports. Bluetooth, Android Auto and Apple CarPlay Prospective car buyers say they are less likely to buy or lease a car that does not have a radio Research conducted by Edison Research, Sep 2021, >6000 respondents from US, UK, Germany, France, Italy, Australia Commissioned by WorldDAB with partner Radioplayer and supported by Commercial Radio Australia, National Association of Broadcasters and Xperi

 Over 80% of consumers are less likely to buy or lease cars without a builtin radio tuner

 Consumption of broadcast radio is significantly higher than for any other form of incar audio; 93% want access to radio to remain free

 Car buyers' most desired radio features include voice controls and content information



- A radio button is essential
- A-Z station list
- Pre-sets should be easy to programme



Listeners deserve great audio quality

Antenna complexity



- Optimise antenna performance
- Collaborate on testing (test routes)
- Electric vehicles next focus of investigation



Listeners need strong, clear branding and visuals



- Visuals / logos to maximise impact on the dashboard
- Competition (online services)



Radio in the car is changing



We are embracing hybrid radio (DAB+ and IP)



- Extend geographic reach
- Additional data, e.g. station logos
- Potential for personalisation and localisation



We are engaging with Android Automotive



- WorldDAB members are part of the Android Automotive NAB Pilot project
- Cross-sector involvement brings important new perspectives to this work



We are focusing on voice as a key user interface



- amazon alexa
- Google Assistant

- Voice assistants well established in cars
- Radio needs to be part of this ecosystem



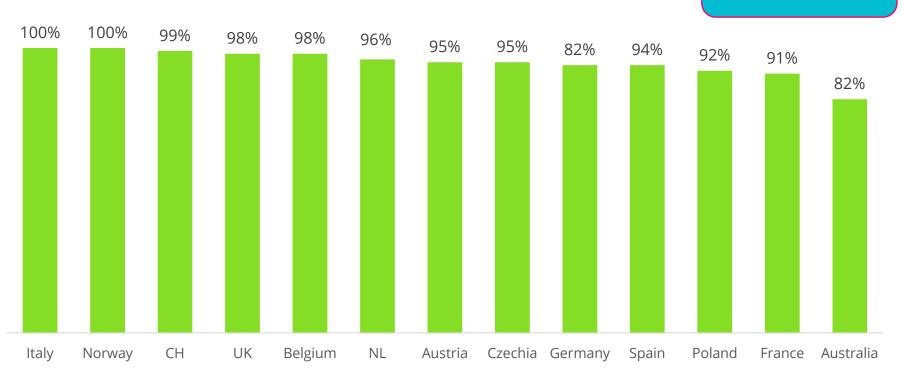
Our priorities for next three years



DAB+ now standard in majority of new cars

New cars with DAB+ as standard

Goal: to build on this position





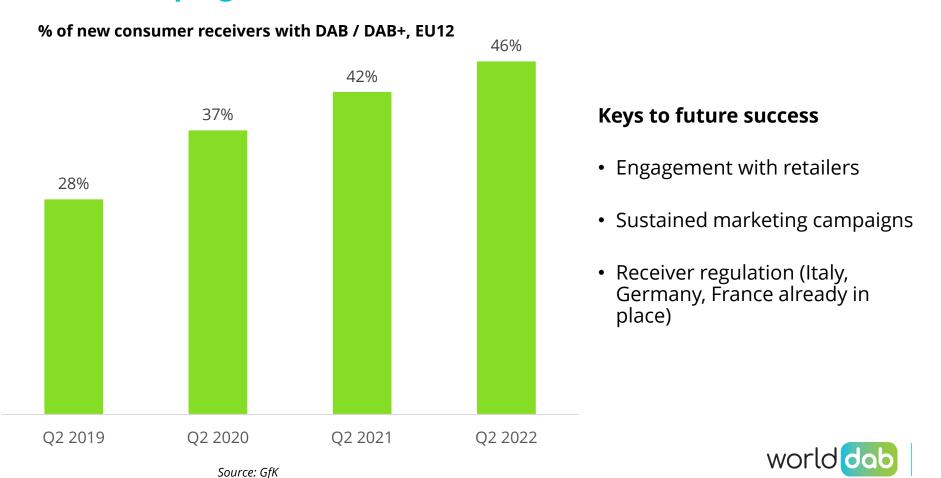
Maintain regulatory support for digital terrestrial radio



- Benefits for consumers & citizens
 - increased choice
 - free-to-air
 - reliable in emergencies



Continued progress with consumer receivers



Ensure car makers understand consumer attitudes to radio

International research study

Car buyer expectations re broadcast radio

- Broadcast radio's points of differentiation
- Expectations re development of radio incar

- Share results with OFMs.
 - Europe
 - North America
 - Asia Pacific



Work with car makers on innovation



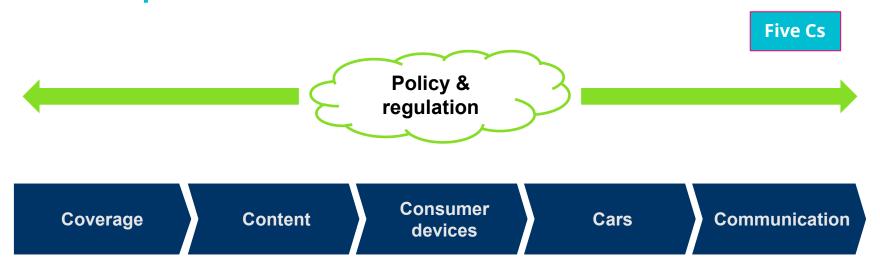
- Enhance DAB+ in the connected car
 - Metadata (e.g. station logos)
 - Voice control
 - Android Automotive
- WorldDAB Automotive Working Group



How do we achieve success?



Share best practice





WorldDAB Marketing Group plays key role



Thank you

www.worlddab.org projectoffice@worlddab.org

