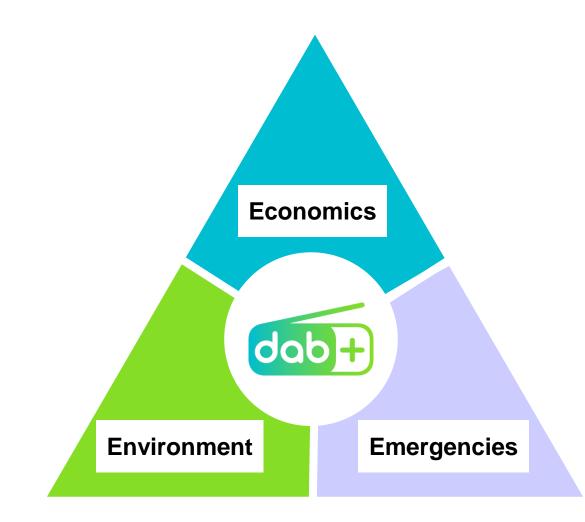


Economics, environment and emergencies leading the way for DAB+ development

Lindsay Cornell, Chair, WorldDAB Technical Committee

ABU TC, November 2022

Three macro reasons for DAB+



- Economics: costs lower, opportunities greater
- Environment: energy usage lower
- Emergencies: resilience



Economics: cost per service far lower than FM

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





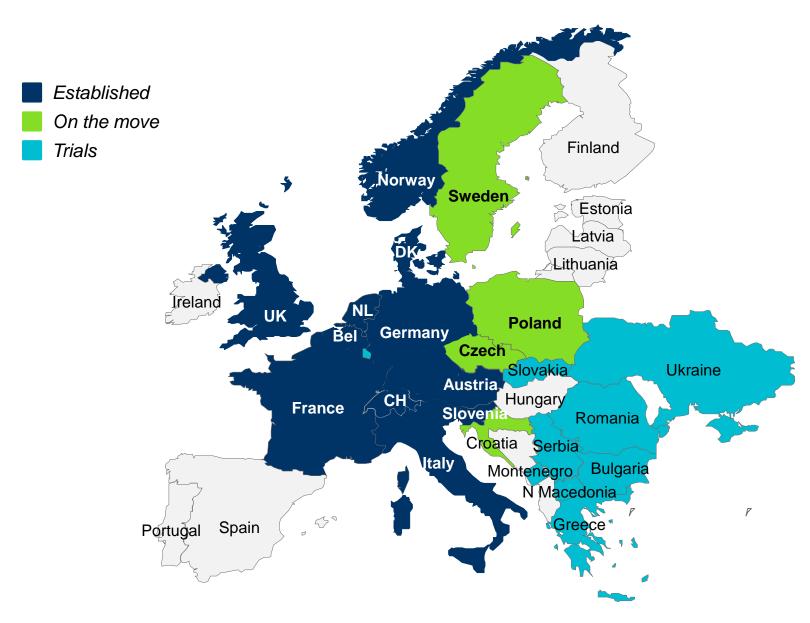
Source: Total operating costs sourced from broadcasters and network operators

Note (1) Operating costs for DAB+ assumes 18 services on multiplex; opex includes site and tower leases, power, telco, maintenance, monitoring and support costs



DAB+ established as core future platform for radio in Europe

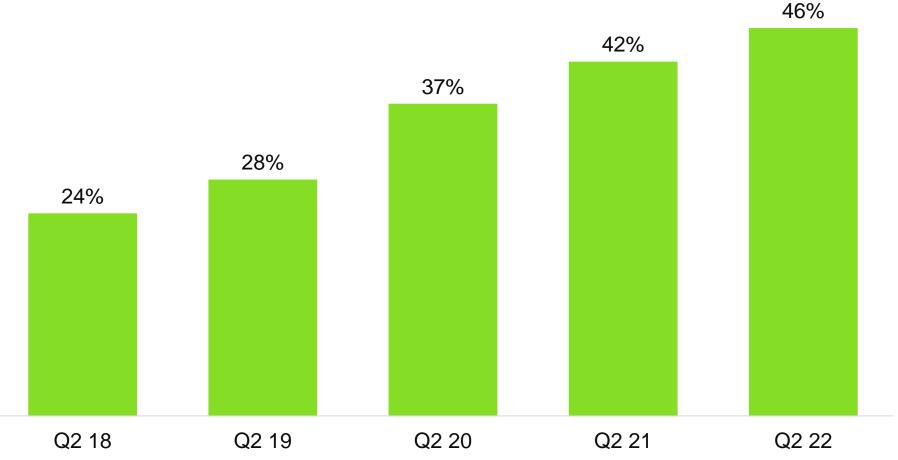






% of new consumer radios with DAB almost doubled in 4 years

Cabj







Source: GfK

New consumer radios with DAB as standard

For broadcasters, DAB+ offers opportunities to innovate

Brand extensions





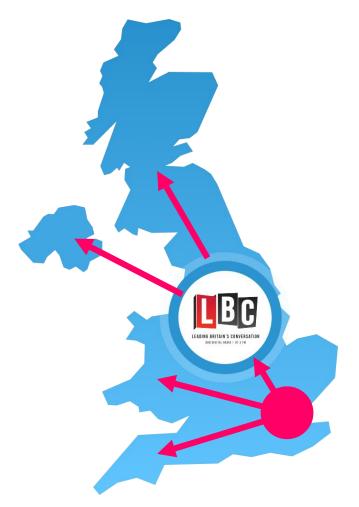
Audience has tripled: 1.7 million (Q1 12) to 5.1 million (Q2 22)



Source: RAJAR

Opportunities to extend reach

LBC expansion – from London to UK



dabt

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 (Q2 2022)



22 million people

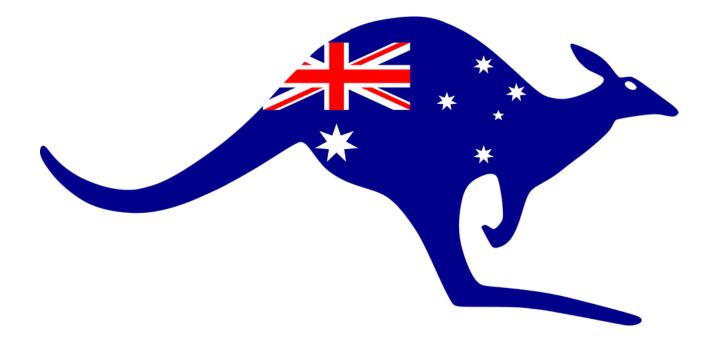
in UK, listen to services not available to them on analogue radio



Source: RAJAR/IPSOS MORI/RSMB (Q2 2022) - estimated audience for digital only services plus Out of Area FM services broadcast on digital radio

Not just a European story



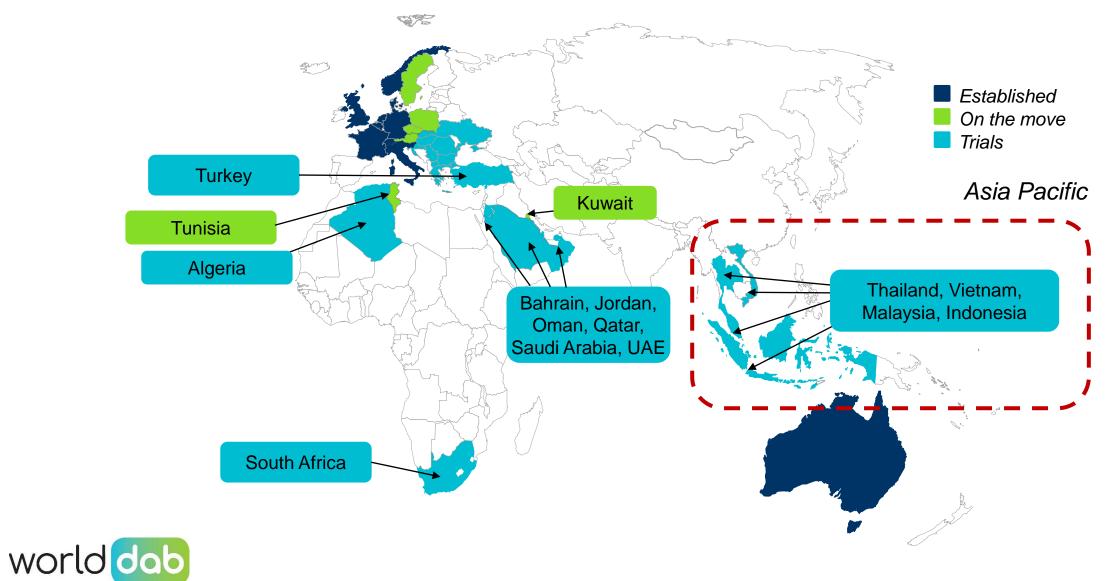


• Australia: commercial DAB+ stations reaching record audiences

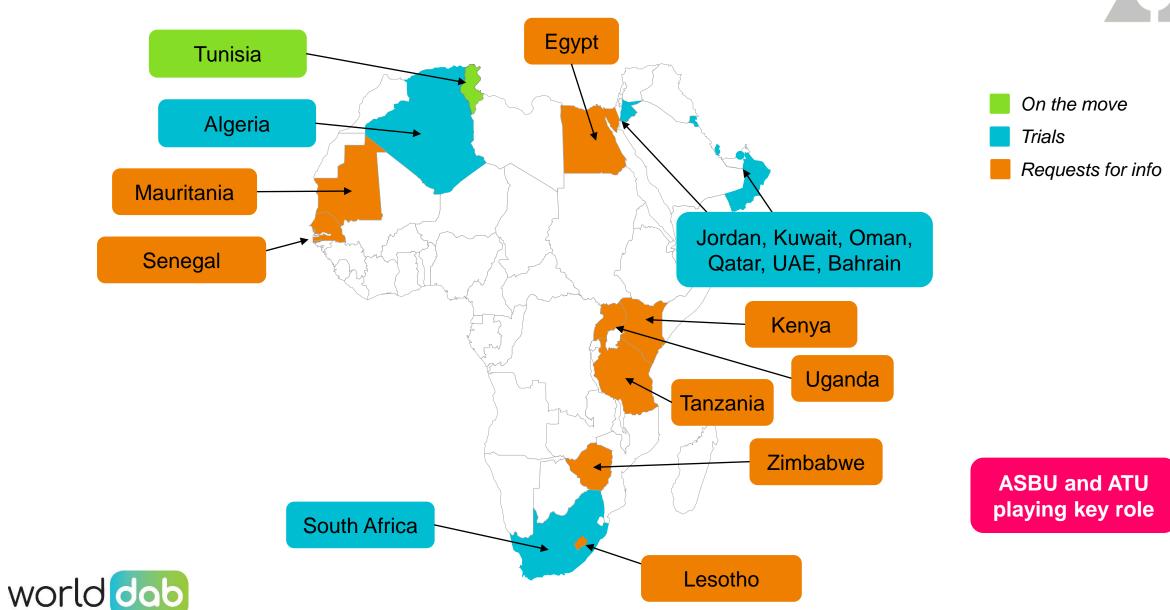


Asia Pacific markets continue to run trials





Africa and Middle East have seen a step change in interest



dab+

Environment: DAB+ is the green solution





- DAB+ consumes significantly less energy than FM
- BBC study: DAB 33% more efficient than FM¹
- German study (BLM): similar results

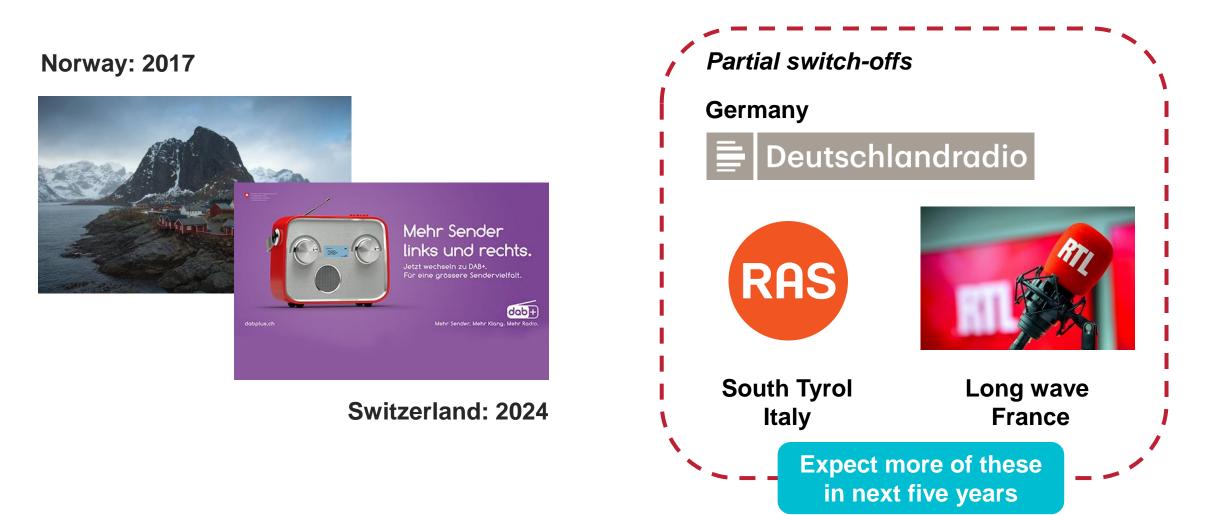


https://www.bbc.co.uk/rd/publications/research-393-energy-footprint-bbc-radio-environment-impact-sustainability

https://www.blm.de/aktivitaeten/forschung/green-radio.cfm

Energy consumption: a key factor in switch-off decisions







Emergencies – DAB+ is resilient





- Broadcast radio reliable in times of emergency
- Mobile services less robust



Resilience of DAB+ recognised by European Union



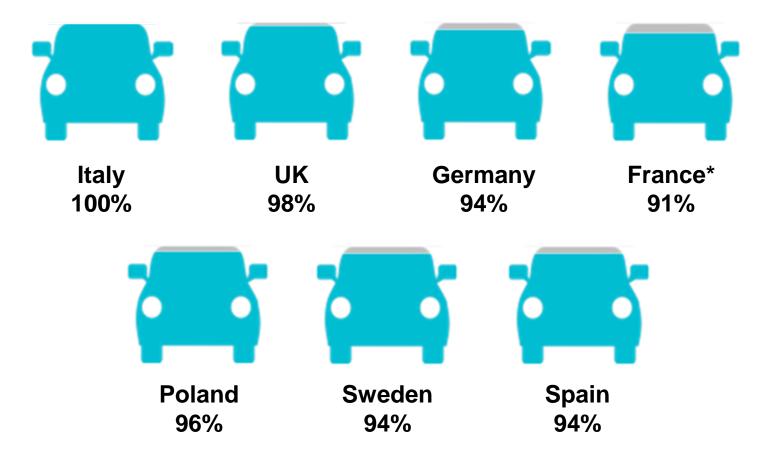


- European Union mandate (EECC): new car radios must have digital terrestrial
- Reliability in emergencies an important factor in this decision



Impact of EECC has been significant





- Almost all new cars in Europe have DAB+ as standard
 - existing DAB+ markets
 - markets where DAB+ is not established
- Never been easier for new markets to launch



Germany proposing DAB+ as part of national warning infrastructure



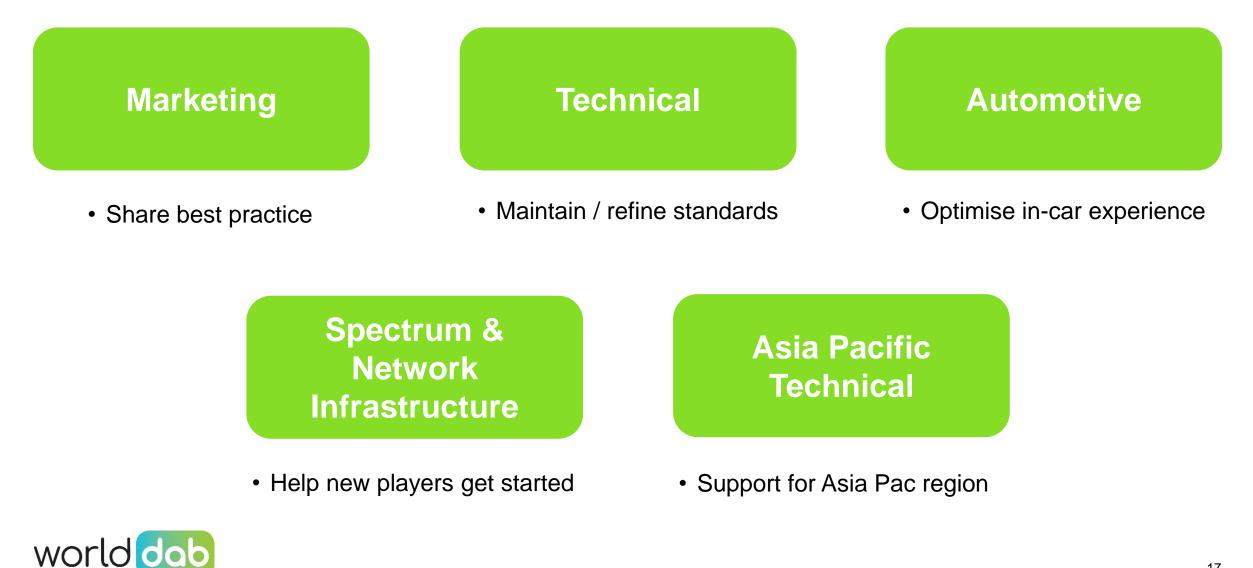


- Following floods in 2021, German authorities and broadcasters discuss role for DAB+
- German radio industry publishes proposal (Sept 2022)
- Proposal submitted to WorldDAB Technical Committee (Oct 2022)
- Next step: build international alignment



WorldDAB committees and working groups continue to be active





Events and meetings

- WorldDAB workshop @ ABU DBS 2023 in Kuala Lumpur
- WorldDAB Summit was held on 17 November
 available to watch on catch-up on WorldDAB YouTube channel
- WorldDAB APAC Technical Group next meeting
 - 6 December 2022
 - 14:00 ICT Bangkok / 18:00 AET Sydney / 07:00 UTC
 - Email ProjectOffice@WorldDAB.org to attend

Topics: DAB+ ASO – Norway DAB+ rollout, monitoring and testing experiences DAB+ multiplexing systems – small scale DAB+









Thank you

