

DAB+ global update & status

Bernie O'Neill

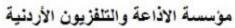
Project Director, WorldDAB

Amman, Jordan, 23 August 2017

Thank you to our hosts and partners











2090 DAB services on air around the world



WorldDAB - here to help you



















NETWORK OPERATORS

END-TO-END MANUFACTURERS











SOLUTION PROVIDERS



DEVICE MANUFACTURERS

AUTOMOTIVE MANUFACTURERS



CHIP MANUFACTURERS



FM is full – difficult to innovate



DAB: opportunities for innovation

- New content, new services
- Greater listening
- Increased revenues



Reality: world is going digital – and radio needs to innovate

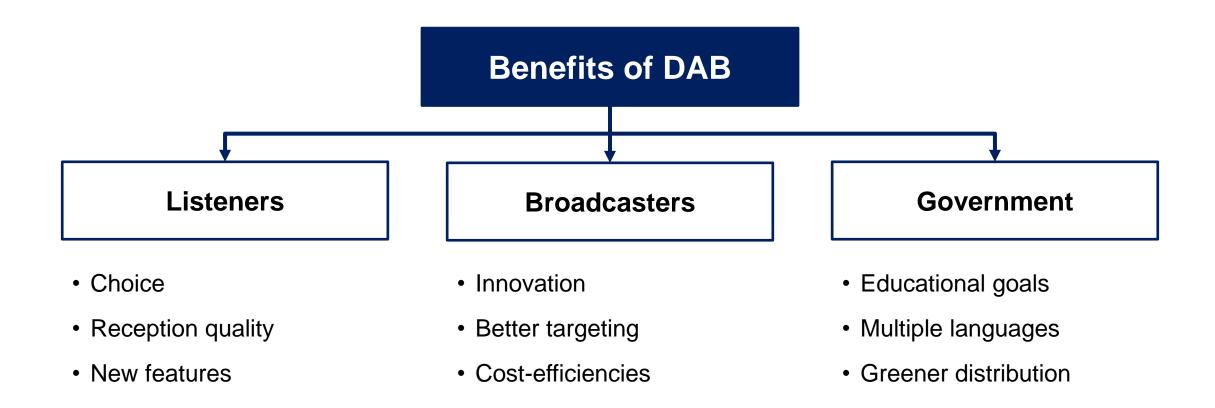
Competitive landscape



- Key threat to radio (public and private) is cloud-based music services
- Audience and advertisers require innovation – difficult on FM
- DAB allows innovation without destroying existing business models



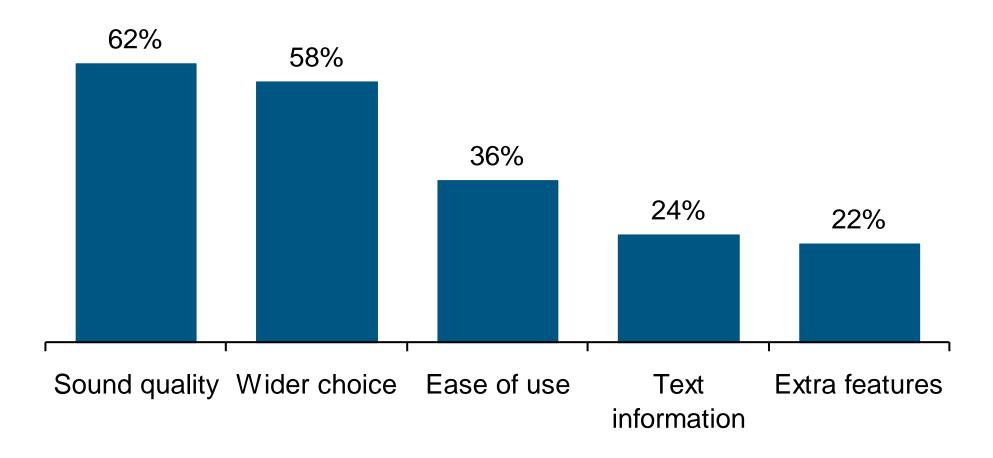
DAB brings benefits for all





Digital broadcast offers range of benefits

UK, % benefits of digital radio





Source: Ofcom, Q2 2014

38 countries with DAB services on-air

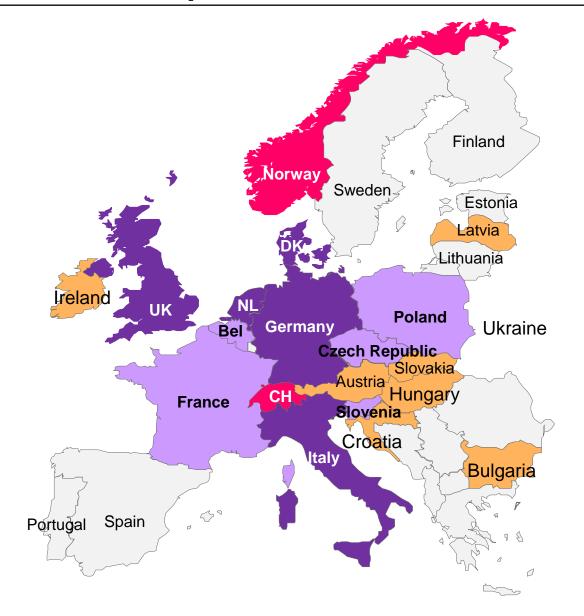
418m people can receive DAB

Over 55m DAB receivers sold



DAB is established across Europe

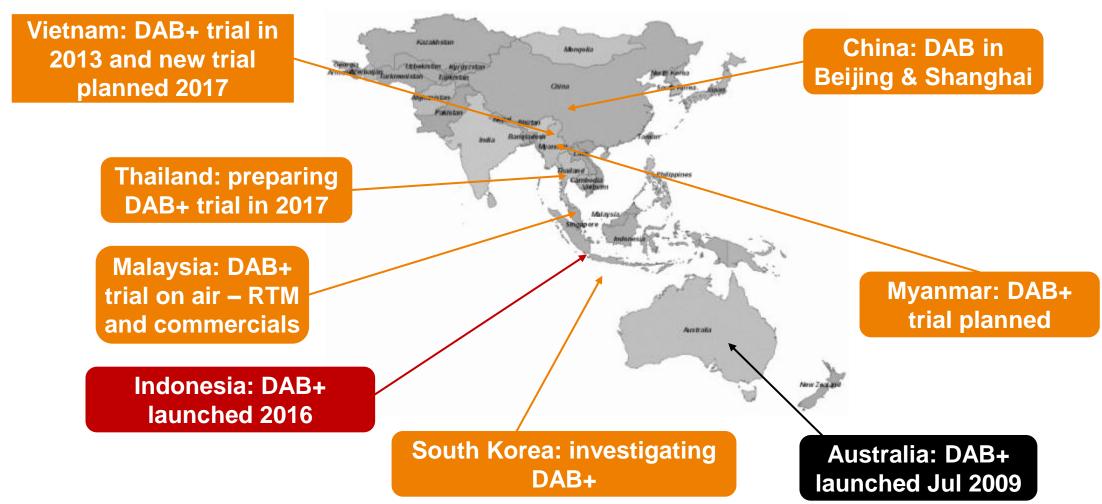








DAB+ in Asia Pacific





South Africa large scale DAB+ trial





DAB+ in the Arab States



Arab States
Broadcasting
Union
recommends
DAB+



Tunisia DAB+ on air since 2008, 12 DAB+ services, 20% population coverage

Qatar trial on-air

Oman pilot conducted and getting ready to launch DAB+

Jordan DAB+ trial on air in Amman today!

Saudi Arabia showing strong interest in digitising radio

Kuwait has regular DAB+ with 90% population coverage

UAE trial since 2014, 1.8m popn coverage, initiated industry consultation on DAB+ receiver specifications

Bahrein trial since 2016, 4 services, 40% population coverage



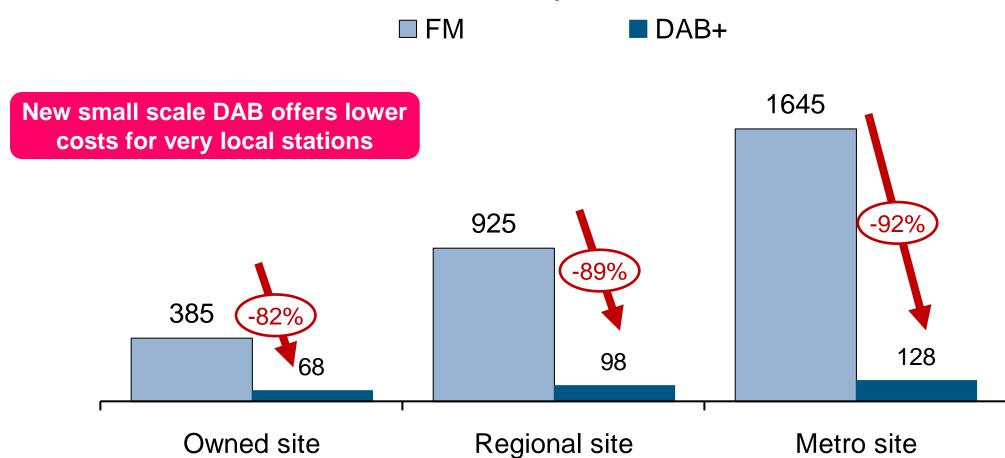
DAB+ Features





DAB+ offers lower costs

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





IP is not the answer – especially for listeners on the move

Issue	DAB / DAB+	Internet
Free to air (for listeners)		X
Cost-effective coverage (broadcasters)		X
Reliable in emergency (society)	✓	X



Opportunity to launch new services



17 services on AM and FM



Over 40 on DAB+



New services - music

UK



Classic Rock



Decade

Australia

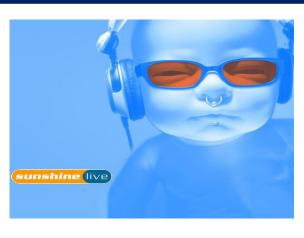


Unsigned bands



Country

Germany



Electronic music



Classical



Specialist speech services – e.g. sports or archive

Sport



- Germany: live football
- UK: digital-only sports channel – e.g. tennis, Formula One

Science



 Germany: higher education for younger audiences

Drama & comedy



UK: archive from the BBC

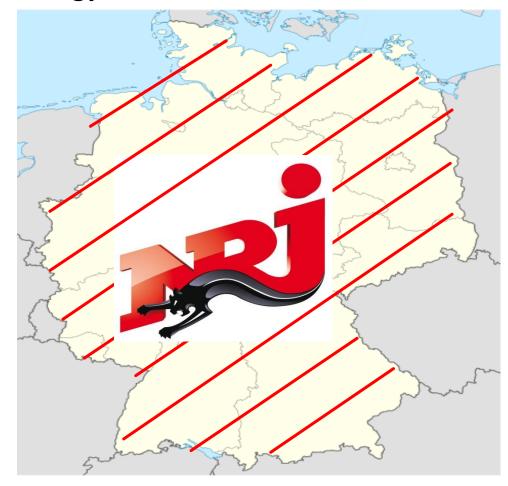


Potential to extend geographic reach

Energy on FM



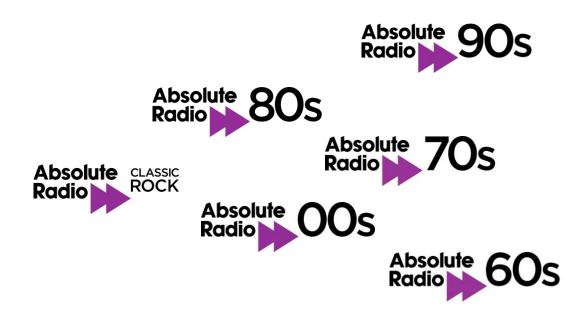
Energy on DAB+





Opportunities for growth are significant





Analogue and digital

Digital-only services



Audience up 136% in seven years



DAB also creates opportunities for smaller radio groups, e.g. Wireless Group



Men 15-44 Live sport / talk

"The real home of football"



Four national stations on DAB



Men 15-44 Live sport / talk

"The real home of football"



Adults 25-44 Rock & pop

"Popular, entertaining, unpredictable"



NEW

Men 15-44 Live sport / talk

"Because sport never stops"



NEW

Adults 35-54 News, current affairs & entertainment

"We'll get you talking"





Pop up stations – for range of events

















Over 55 million receivers sold

Available from \$16



DAB+ receivers

Over 500 consumer devices - at all price points







Colour screen devices create new opportunities

Revo Pixis







Colour images for additional information





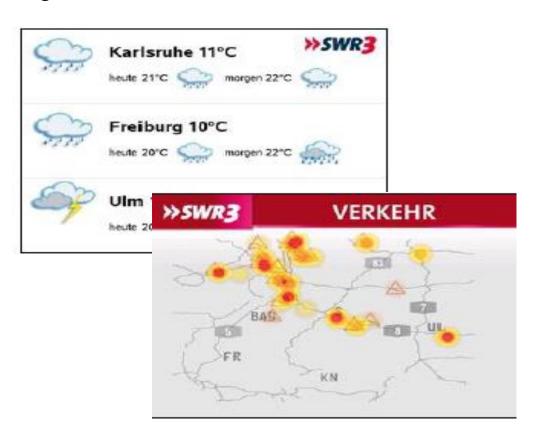






Data services for cars

Categorised slideshow



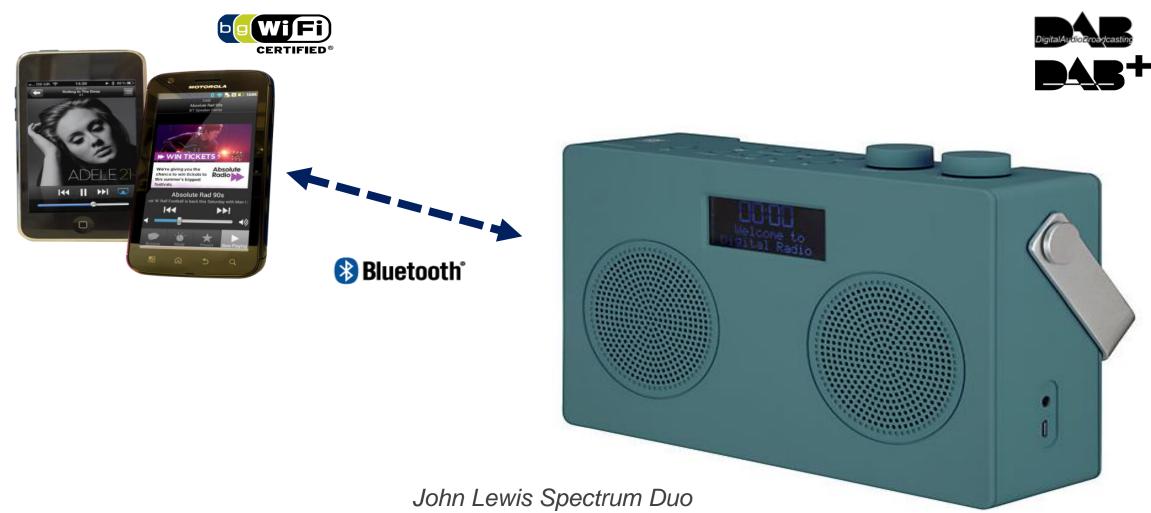
TPEG



Enhanced traffic information



Hybrid radios with Bluetooth connectivity – from €59

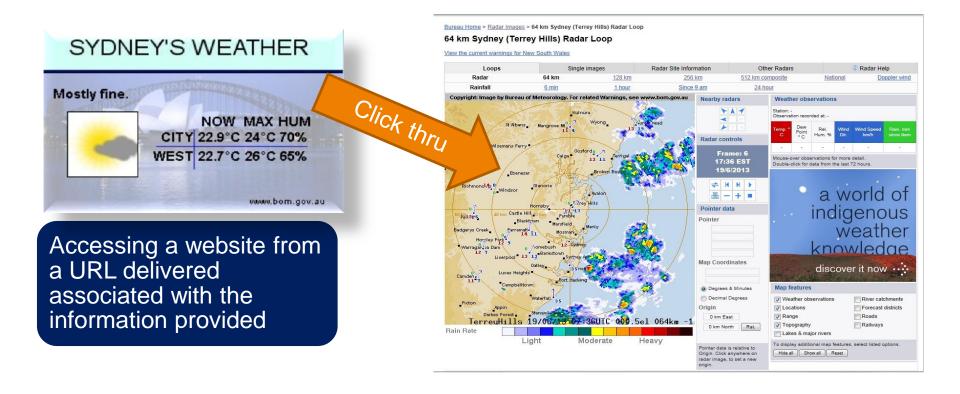




Emergency features - Hybrid Radio

DAB can provide rich multimedia to support information delivery

Text and Images can have embedded links to provide additional information if the radio receiver is connected to the internet





Growing number of markets are considering receiver regulation



 Germany: government has proposed regulation that receivers should have FM and digital capability



France: already has a digital receiver law*



• Italy: regulator AGCOM has called for government support



 Netherlands: Ministry of Economic Affairs has asked EU for regulation to require receivers to have FM and digital



techUK – members supportive of regulation in favour of digital receivers



The automotive sector is a key priority

























































































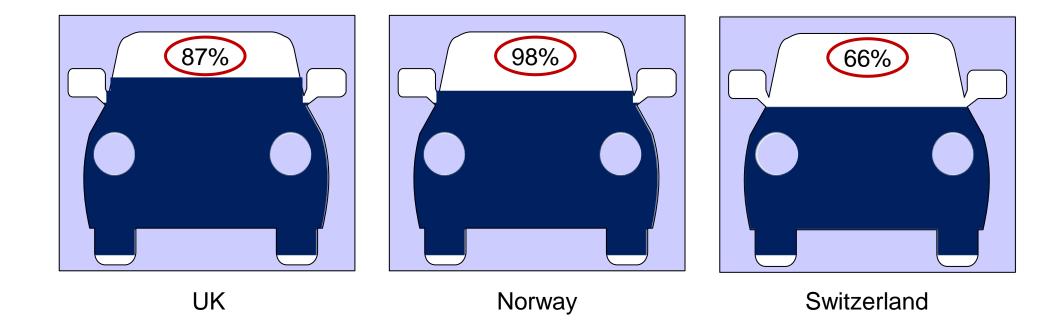






In advanced markets, DAB is widely available in cars

% of new cars with DAB+ as standard





Sources: SMMT/CAP (UK), Estimate by national broadcasters and Digitalradio Norway, (Norway), Weer GmbH (Switzerland)

Wide range of aftermarket devices available

• 1Din Radios







• 2Din Radios







Dealer fit solutions







Do it yourself adapters

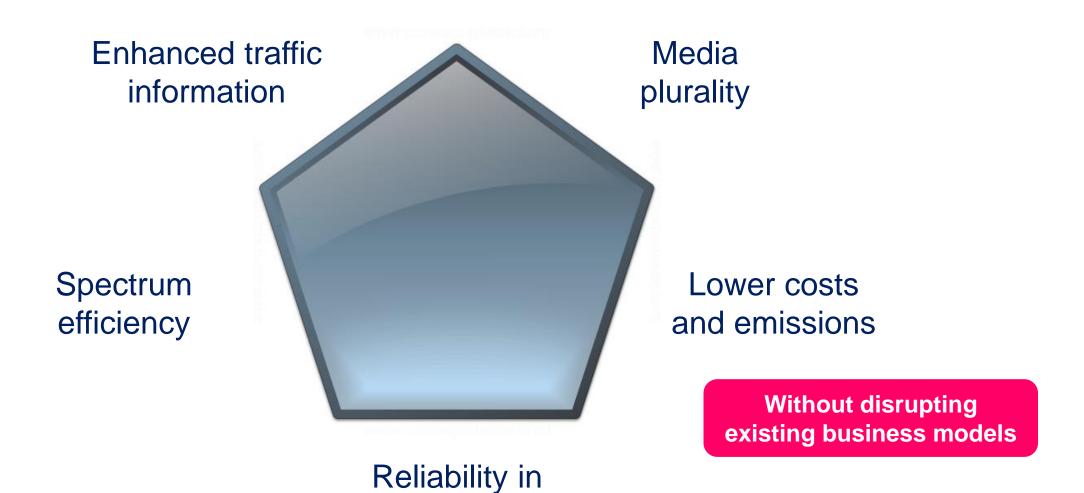








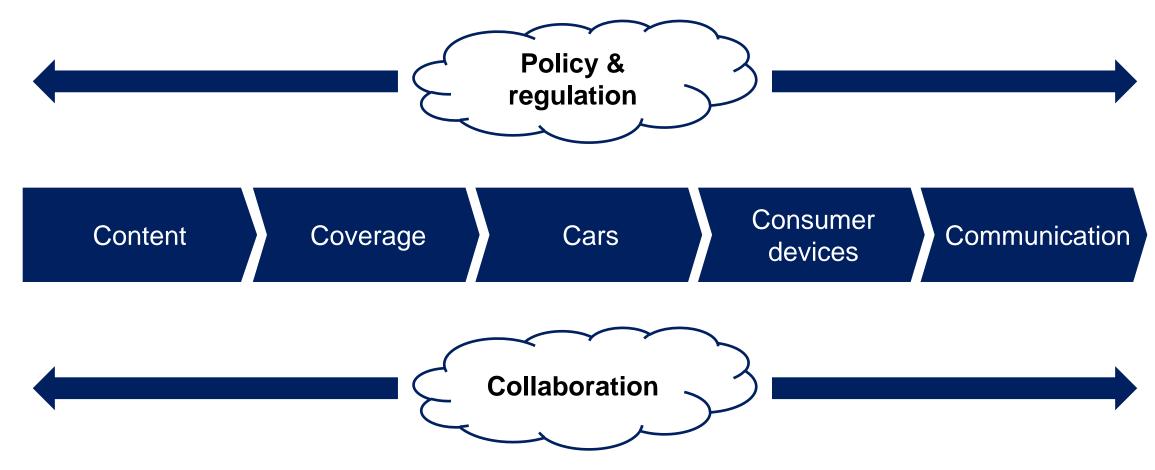
Digital delivers benefits for society



emergencies



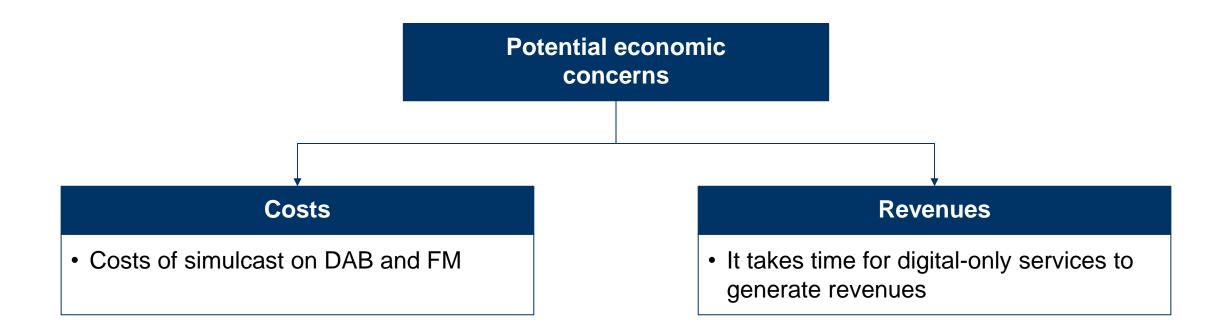
Keys to success are: political commitment and industry collaboration



National and international



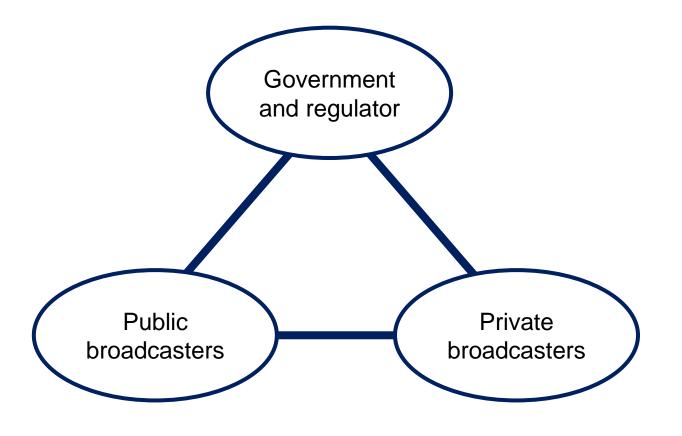
Some may be concerned about economics of going digital





Public authorities and public broadcasters can help

Digital radio partnerships



- Regulatory incentives, e.g.
 - FM licence renewals
 - relaxation of ownership rules
- Government contribution (subject to State Aid rules)
- Infrastructure sharing: public and private broadcasters (e.g. Bavaria)



Thank you

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