

Small scale DAB

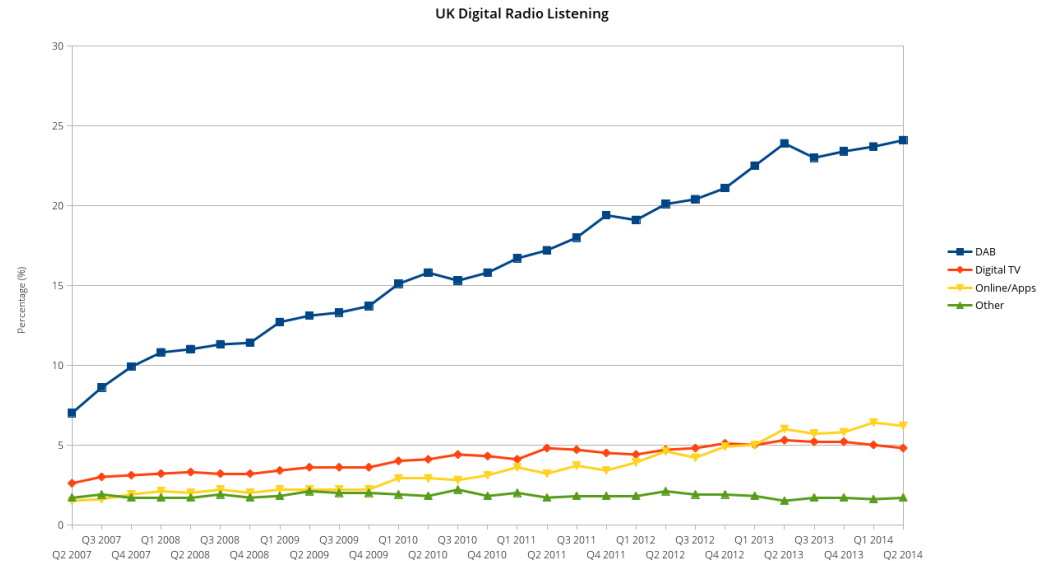
IBC 2015 - OPEN SOURCE MEETUP

About 'Small Scale' DAB...

- DAB Digital Radio for
 - Local
 - Community
 - Innovation

- Why DAB?
 - Spirit of EBU R.138
 - ~20M receivers sold

- Why "Small Scale"?
 - Analogous to UK tier of small FM radio stations
 - Coverage to 10 km radius (typical).



**UK digital radio listening" by Tghe-retford at English Wikipedia - Own work. Licensed under Public Domain via Commons -

What is Different?

- Chain entirely Open Source:
 - Freedom
 - Low cost of ownership
 - Control of life cycle – forever!
- Tools for:
 - Encoding
 - Multiplexing
 - Modulation
 - Analysis



Development

- **Communications Research Centre**, Canada (pioneers):
 - Pascal Charest, François Lefebvre
 - GPL 2009
- **Open Digital Radio**, Switzerland
 - Mathias Coinchon, Matthias Brändli, Stan Roehrich (et al)
 - 24/7 'production' use since May 2014 Geneva, Zurich, Lausanne...
 - Growing user community // www.opendigitalradio.org

UK 'small scale' trials

- Started with Brighton test using crc-mmbtools:
- 3 DAB trials planned
 - Consultation
 - Responses
- We listened...

UK 'small scale' trials

- Increase to 10 trials
 - 51 applicants. (Slightly over-subscribed!)
 - Built 15 transmitters (~100 watts ERP)
 - Trials to last nine months
 - 8/10 now on air, or test transmissions
 - Feedback to government post-trials.



Thank You!