

Jonas Jacobsson

Head of Broadcast and Media Technology

Telenor, Norway



Norway ASO in 2017, moving from FM to DAB

Listeners
Broadcasters
Environment



For listeners

• More content, more choice, more relevancy – for free!







For listeners

- More content, more choice, more relevancy
- Easier to find content





EPGs, slideshows and extra information

For listeners

- More content, more choice, more relevancy
- Easier to find content
- Better reception



Car reception

Excellent reception, no atmospheric noise - in car as well as at home

Congested FM frequency band



For broadcasters

• More content = more business



More content = more business

- New revenue streams
- Targeted advertisement



For broadcasters

- More content = more business
- Larger coverage





Larger coverage

- In Norway, DAB > FM (given same NW size)
- Compete on content, not technology or coverage
- Increased service and advertisement reach

For broadcasters

- More content = more business
- Larger coverage
- Robustness





Robustness

Shared infrastructure means affordable redundancy

- Reserve power
- Redundancy transmitters
- Programme feed
- Disaster Recovery
- Synchronization

For broadcasters

- More content = more business
- Larger coverage
- Robustness

much

For lower per-channel cost than FM transmission



For the environment

- Energy efficiency
- Smaller footprint
- Co-location of services



Energy consumption

- 5 FM-networks use 70% more energy than 2 DAB networks
- Per channel, FM uses 10 times more energy than DAB

Going from FM to DAB, energy use has decreased



Footprint

- More channels in less physical space
- DAB 2 Dual Drive transmitters < 5 FM transmitters





Co-location

• FM; each distributed radio channel can have it's own transmitter network



Co-location

• DAB; the mux concept



DAB vitalizes radio

- More and better services for the listener
- The Broadcasters remain relevant in the competition for listeners' attention
- Better environmental footprint



Thank you!

Questions?

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