



Digital Multimedia Broadcasting

Radio • Mobile TV • Multimedia • Traffic Data

WorldDMB Workshop in Collaboration with VOV and ABU Hanoi

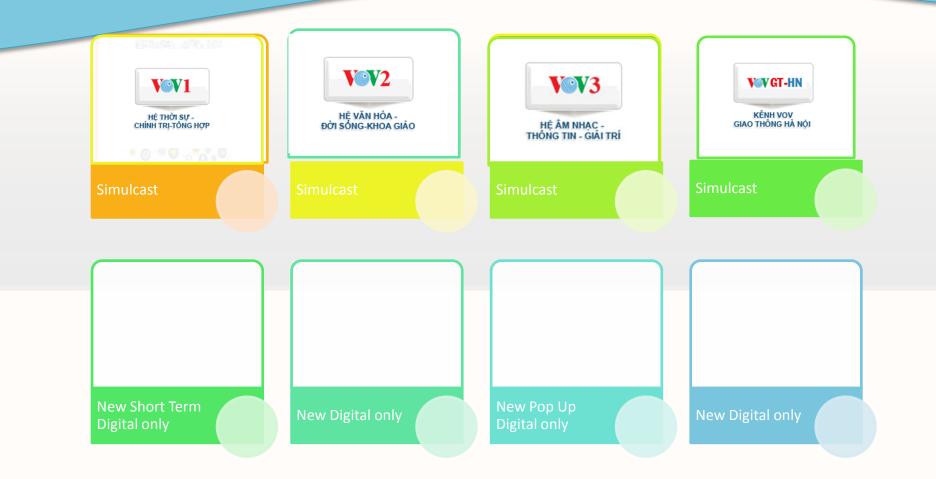
DAB+ implementation – How to bring it all together

Monday 29 July 2013 Ms Joan Warner, Asia Pacific Chair Major Recommendation - Choose DAB+ 89m Vietnamese people will benefit

- Radio broadcasting will go green
- Better emergency services and systems receivers can be switched on automatically
- Costs will be saved over analogue
- New content = longer time spent listening and better reach
- More opportunity for education and cultural programming free to air
- Retail activity and receiver sales stimulate economy world
- Broadcasters control the technology and the future



More Content & Dynamic Features New stations = more listening = increased reach



DAB+ is more than just technology!

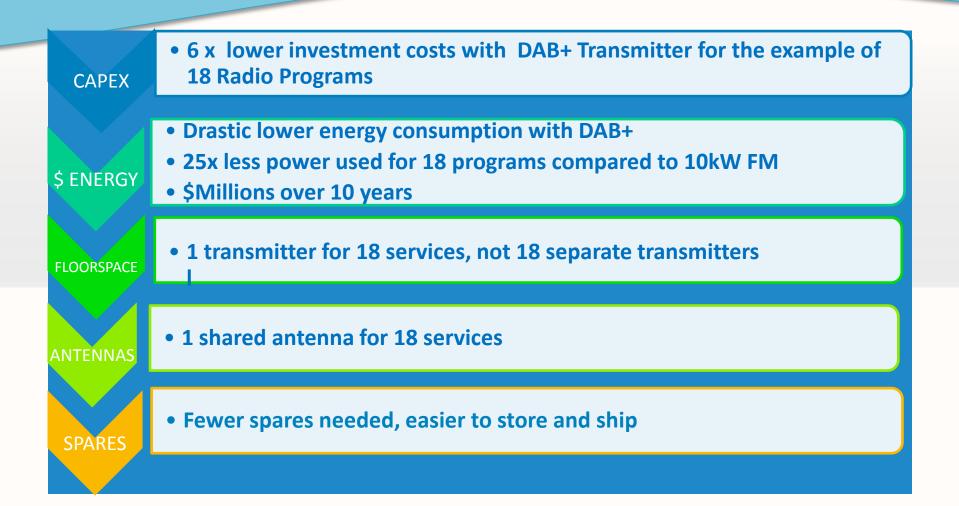
Planning of DAB networks

- RF planning
- SFN operation
- Coverage planning tools and methods

The bigger rollout picture

- Bring broadcast, retail and manufacturers together
- Meet with chip makers, radio manufacturers, retail, automotive sectors and tell them what you want.

DAB+ Reduces Costs & Makes Radio Green



Implementation Recommendations

1.DAB+ Rollout is a Staged National Project

2. Establish Timetable for DAB+ Rollout

3. Policy to provide certainty and a future for Broadcasters



Recommendation 1: DAB+ Rollout is a Staged National Project

Establish a National Steering Committee comprised of all key broadcasters and the regulator. It should set the timetable for implementation of digital radio rollout.

The National Steering Committee should set up national subcommittees to report back to the Steering Committee on a number of issues



Planning and Licensing

Regulator to chair Planning and Licensing Subcommittee to design spectrum and licensing regime

Multiplex spectrum licenses should be issued to current broadcasters only. Broadcasters should control the spectrum licence and be allowed to operate transmission infrastructure.







Marketing and PR

Let listeners know that digital is here!

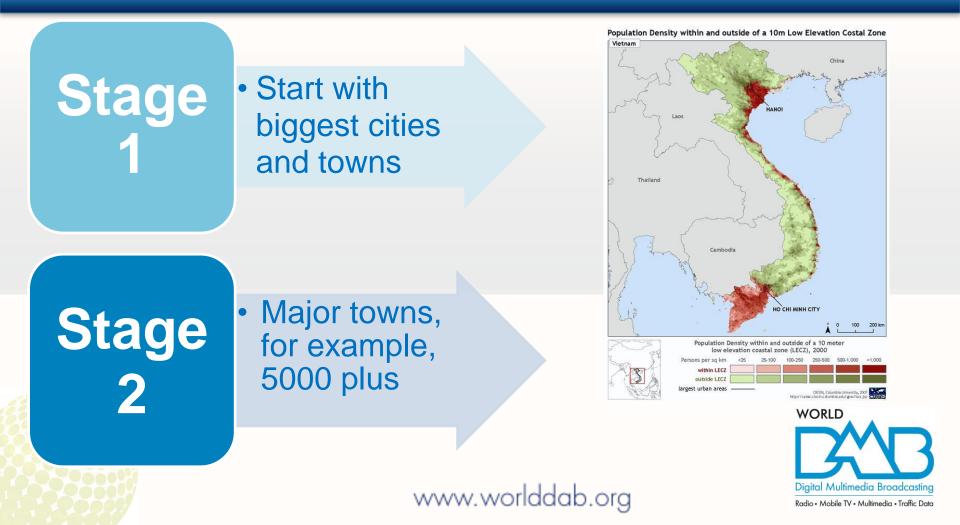
Talk to retailers and receiver manufacturers.

- Form a Marketing Sub Committee comprised of broadcasters, retailers and manufacturers to develop a marketing and promotions plan.
- Develop key messages better sound and more content.
- Use analogue, online and social media to tell listeners about digital radio
- Ensure retailers have an affordable range of receivers from first day of switch on.



Recommendation 2:

Establish Timetable for Rollout



Once you know how many multiplexes start spectrum planning

Multiplexes

Allocate a frequency for each multiplex

Channel planning

How many DAB+ channels? High power - can

High power - can re-use frequency if more than 300k away





Recommendation 3: Certainty and a future for Broadcasters

- Free digital content licences
- Current broadcasters only
- Own Multiplex Licences
- First option to own infrastructure
- Allowed to offer extra stations
- New formats allowed e.g. education
- Dynamic use of spectrum allowed





Summary of Recommendations

- Choose powerful spectrum efficient technology DAB+
- Start now
- Broadcasters keep analogue spectrum
- Broadcasters own the spectrum licence
- Broadcasters have first right to own and operate transmission infrastructure
- National Staged Project
- Planning for high power and indoor coverage
- New content and affordable receivers
- Marketing Strategy to inform listeners

