

NATIONAL COMMUNICATIONS AUTHORITY



Presentation Outline



FM Band Occupancy



The DAB Trial in Ghana



Objectives of DAB Trial in Ghana



Overview of NCA DAB Trial Setup



Frequency Band for DAB in Ghana



Presentation Outline - 2



Selected Audio Channels



Benefits of DAB in Ghana



Challenges with DAB introduction in Ghana



Next Steps



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FM Band Occupancy



FM Band congested in major cities;

ACCRA

KUMASI

TAKORADI

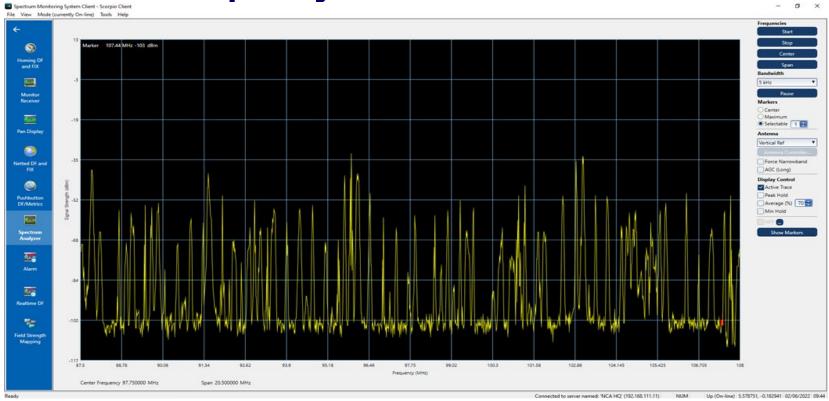
ETC.

Large number of outstanding FM Radio applications

New applications received every week



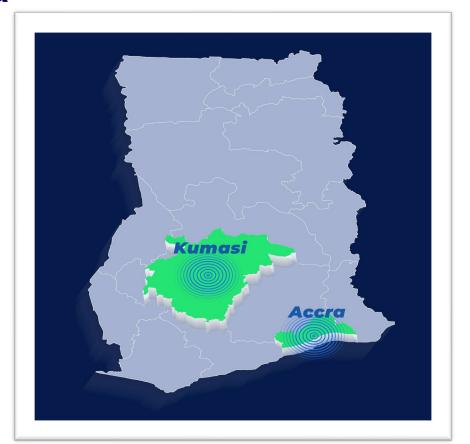
FM Band Occupancy - 2



The Dab Trial in Ghana



Launch of DAB Trial for Greater Accra and Ashanti Regions



Objectives of DAB Trial in Ghana

01

Test the features, coverage characterisctics and other technical metrics of DAB+ to inform frequency planning and regulatory standards

02



Establish the quality aspects of DAB and the transmission parameters which delivers optimum quality

03



Ascertain the issues that may emerge with multiple stations sharing the same infrastructure with a single transmission network provider



Objectives of DAB Trial in Ghana - 2

04

Market readiness and required market structure to inform the development of an appropriate authorisation framework for DAB

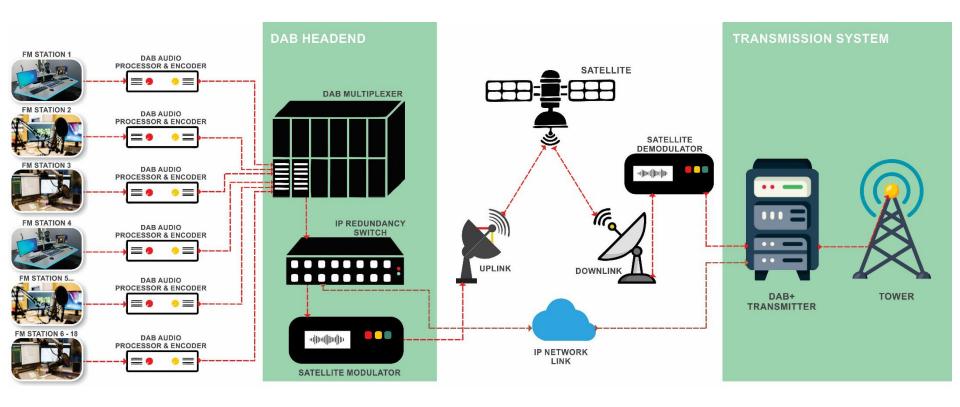
05



Determine the requirements for the development of minimum specifications for DAB receivers in collaboration with the Ghana Standards Authority (GSA)



Overview of NCA DAB Trial Setup





Ghana DAB Transmission Infrastructure





Frequency Band for DAB in Ghana



Selected Audio Channels



UNIIQ FM



ANGEL FM



ASAASE FM



ASEMPA FM



ATLANTIS RADIO



CITI FM



CLASS FM



HOT FM



KESSBEN FM



OMAN FM





ORANGE FM



PEACE FM



RADIO FOCUS



RADIO UNIVERS





STARR FM



WONTUMI FM

Benefit of DAB in Ghana



DAB+ provides:



Good quality audio



Support for multiple radio channels (spectrum efficiency)



Support for value added data services



Will utilize a different frequency band (174-230MHz) from that of FM radio (87.5-108MHz)







Service can be delivered simultaneously with FM



Up to 18 Stations will share the same frequency channel and transmitter.

Stations on DAB can extend their coverage beyond their current FM coverage area.



Benefits of DAB in Ghana - 2



Improved Reception

Quality: DAB utilises digital signals, mitigating interference and delivering superior audio quality compared to traditional analogue FM radio.



Enhanced Interactive

Services: In comparison to FM, DAB allows the transmission of metadata such as text and images for the following - service and programme information, emergency warnings, news, weather and traffic information.



Ease of Selecting DAB stations to

listen: Consumers are able to select DAB stations by searching for the names of the stations instead of memorising their frequencies.



Challenges with DAB introduction in Ghana



DAB+ requires new digital radio receivers which are currently not available in the Ghanaian market



A few individuals may have receivers acquired directly from Europe but is insignificant compared to the current FM receiver population



The comparable audio quality of FM to DAB+ may not incentivize consumers to voluntarily acquire new receivers which support DAB+



Internet radio, music streaming and podcasts are growing in Ghana and represent an alternative to DAB from the consumer perspective

Next Steps



Promotion of DAB Services

Continue to promote

DAB during trial period

for listeners to acquire

receivers.



Monitoring

Continuous monitoring
of DAB transmission
parameters for
optimization.
Assessment of feedback
from listeners.



Public Awareness Campaign

Public education on benefits of DAB.



Next Steps - 2





Expansion of DAB Trial into other Regions

- * Improved access to information and entertainment.
- * Enhance communication and public service broadcasting.
- * Create economic opportunities.
- * Bridge the digital divide.
- * Stimulate technological advancement.
- * Promote cultural preservation and diversity.

Next Steps - 3



Development of Regulatory framework

- * Promoting innovation and competition.
- * Protecting consumer interests.
- * Fostering the growth of the DAB ecosystem.



Next Steps - 4

- Use of optimal pricing schemes to encourage uptake of the technology
- Encourage Syndication as a way of sanitizing the airwaves when many Radio Stations are onair.
- Use regulation to encourage target marketing.



Thank You, Any Questions?





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