

A Report on Migration from Analogue to Digital Broadcasting in Ghana

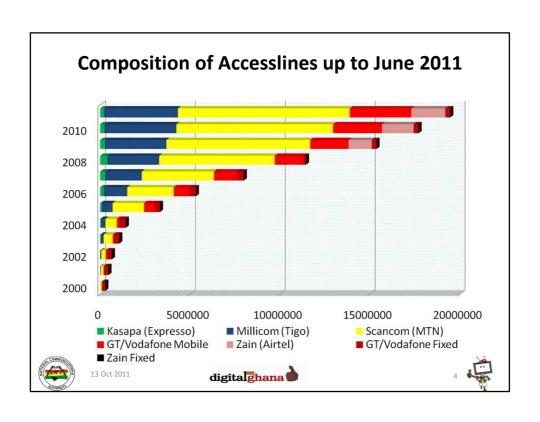
Broadcasting Policy, Legal & Regulatory Environment

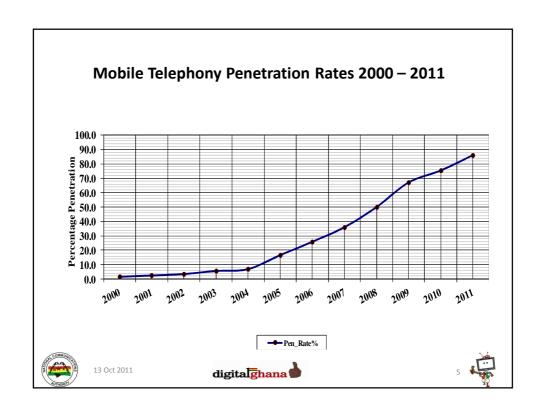
- Policies
 - ✓ NMC National Media Policy, 2000
 - ✓ National Telecommunications Policy (NTP), 2005
 - ✓ Report of the National Digital Broadcasting Migration Technical Committee, 2010
- ☐ Laws
 - ✓ Television Licensing Decree, 1966, (N.L.C.D. 89)
 - ✓ Television Licensing (Amendment) Law, 1991 (P.N.D.C.L. 257)
 - ✓ Ghana Broadcasting Corporation Decree, 1968, (NLCD 226)
 - ✓ National Media Commission Act, 1993 (Act 449)
 - ✓ National Communications Authority Act, 2008 (Act 769)
 - ✓ Electronic Communications Act, 2008, (Act 775)
- ☐ Regulations & Guidelines
 - ✓ Television Licensing Regulations, 1991 (L.I. 1520)
 - ✓ NMC Broadcasting Standards, 2000
 - ✓ National Communications Regulations, 2003, (L.I. 1719)
 - ✓ NMC Guidelines for Local Language Broadcasting, 2009
 - \checkmark Guidelines for the Deployment of Communications Infrastructure, 2010

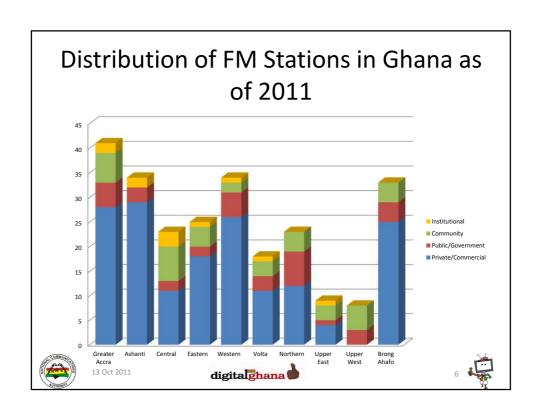


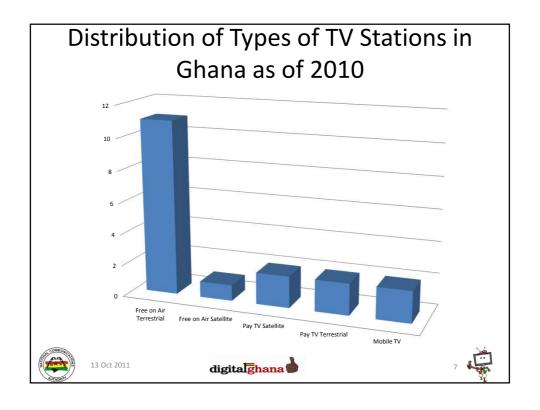
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Composition of Communications Space By Number in operation									
Category	2004	200 5	2006	2007	2008	2009	2010	2011	
Fixed Line	2	2	2	2	2	2	2	2	
Cellular	4	4	4	4	4	5	5	5	
ISPs	25	29	32	34	35	35	35	35	
FM Radio	84	84	127	129	144	171	190	220	
TV	8	8	10	11	13	14	14	16	
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Overview of Existing Analogue Terrestrial TV Signal Distribution

- ☐ GTV has
 - √ 30 transmitters operating in VHF Band III
 - √ 9 repeater stations operating in UHF Bands IV & V
- ☐ Private broadcasters
 - √ TV3, Metro TV, TV Africa operate in Band III
 - ✓ Net2 TV, Viasat 1, e-TV Ghana, Crystal TV, Coastal TV operate UHF transmitters



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Challenges of Existing Analogue Regime

- ☐ Poor Infrastructure sharing/Co-location
 - ✓ Each broadcaster carries own signals
 - ✓ Combined Network management costs for the industry are high
 - ✓ Transmitters are located in varied directions for the same coverage target resulting in:
- ☐ Poor reception conditions
 - ✓ Use of a single directional antenna presents serious reception challenges:
 - Ghosting
 - Blurr images
 - Lines across images
 - Poor sound, etc
 - Environmental aesthetics are badly affected by the sight of long bamboo poles hoisting antennas



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Why Migrate?

- ☐ To comply with and adopt the tenets of the GE-06 Agreement.
- ☐ To rapidly adopt spectrum efficient methods in the management of the scarce RF spectrum

✓ to broaden its utility as a resource in the interest and benefit of stakeholders.

☐ To prevent dumping of obsolete analogue TV equipment into the country



☐ To enhance the quality and experience of TV viewers in Ghana



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STRATEGY FOR THE TRANSITION FROM ANALOGUE TO DIGITAL BROADCASTING IN GHANA

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Governance/Leadership

- ☐ Overall Leadership provided by the Government of Ghana:
 - ✓ All policy decisions approved by Cabinet
 - ✓ All Legal instruments to be approved by Parliament
- ☐ Digital Broadcasting Migration Committee:
 - ✓ Chaired by Honourable Minister of Communications
 - ✓ Membership of 13 from all stakeholder institutions
 - Ministries, Parliament, Regulators, State Broadcaster, Private Broadcasters
 - ✓ Responsible for:
 - policy implementation
 - integrated planning
 - budgeting

- communication with the public
- performance monitoring



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Free-to-Air TV Strategy

- ☐ Independent DTT Transmission Entity
 - ✓ Being established through Public Private Partnership
 - ✓ Ghana Broadcasting Corporation (GBC) and Ghana Independent Broadcasters Association (GIBA)
 - ✓ Preliminary discussions pointing to 50%:50% risk & reward
 - ✓ Discussions led by Public Investment Unit of MoFEP
 - ✓ RFP for DVB-T2 network under development in lieu of PPP



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Standards

- ☐ Transmission standard DVB-T2 (EN 302 755)
- ☐ Television presentation formats:
 - ✓ standard definition (SDTV) until analogue switch off (ASO)
 - √ high definition after ASO
- ☐ Compression technology:
 - ☐ H.264/AVC/MPEG-4 (part 10) and
 - ☐ Advanced Audio Coding (AAC)
- □ Application Programming Interface (API) for additional and interactive services MHEG-5



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Conformance Strategy

- ☐ Appointment of test lab for STB Compliance testing
- ☐ Licensing of compliant STBs to use certification logo

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- □ Logo would confirm to consumers that the receiver is Ghana DTT compliant.
- ☐ Publication of STB Manufacturers 'White' list.

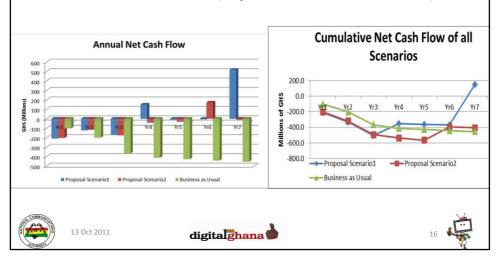


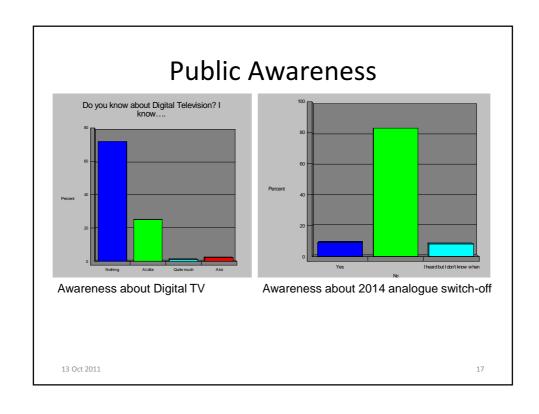
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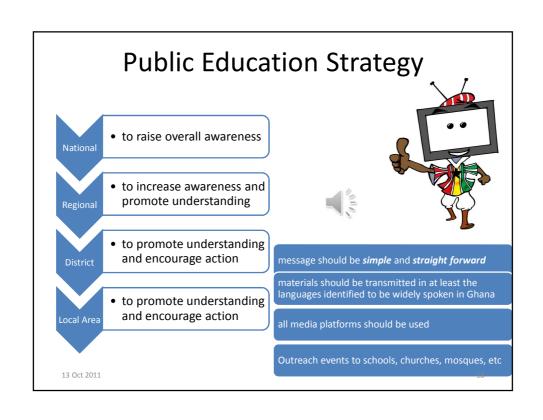


Analogue Switch-off Date

• 31st December, 2014 (3 yr double illumination)

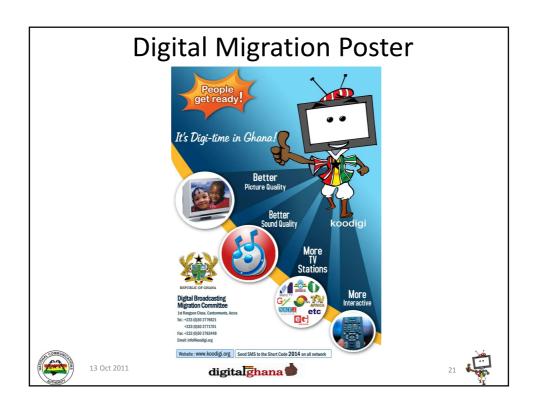












Switchover Timetable							
Activity	Start Date	End Date					
NDBMTC Final Report to Govt	13th Jan 2010	30th Aug 2010					
Development of Legal Framework (Amendment of Electronic Communications Act)	Sept 2010	December 2010					
Public Awareness Campaign	September 2010	December 2014					
Establishment of National Digital Migration Implementation Body	January 2011						
Licences for Digital TV	3Q 2011						
Nationwide Roll-out of Digital TV (Simulcast Period)	2012	2013					
Coverage of all Regional Capitals & environs	By December 2012						
Phased Analogue Switch-off	To be determined according to locations and conditions						
Completion of Switchover	31st December 2014						
Appraisal Report of Switchover Process 13 Oct 2011	6 months after completion of switchover						

Identified Risks

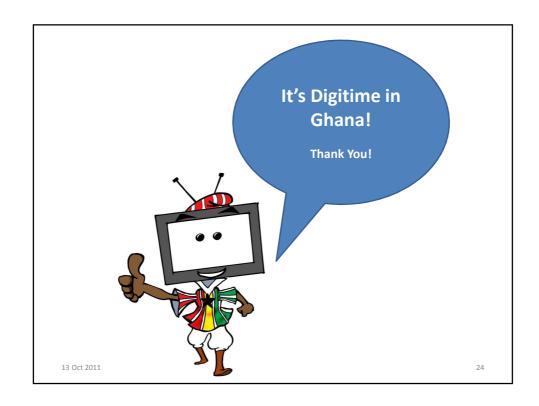
- □Low public awareness:
 - □ could lead to a slow uptake of the service or conversely, panic when the 2014 analogue switch-off date is announced.
- ☐ Uncertainty about funding sources which could stifle implementation of the project.
 - ☐ Funding for consumer incentives e.g. help scheme for economically vulnerable, etc.
- □ Absence of a legal framework for ASO:
 - ☐ to avert any risks of legal suits from civil society organisations and/or pressure groups.



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