1st Ghana Multi-Stakeholder Forum

At Kofi Annan ICT Centre of Excellence

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Minister for Communications

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World Bank study indicates that in low and middle income countries every 10-percentage point increase in broadband penetration generates a boost of 1.38 additional percentage points to GDP growth (WB, 2010)
### Mobile Broadband Usage Ranking October 2013

<table>
<thead>
<tr>
<th>Global rank</th>
<th>Country</th>
<th>Penetration rate</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>49</td>
<td>Ghana</td>
<td>33.3%</td>
<td>1st in Africa</td>
</tr>
<tr>
<td>55</td>
<td>Zimbabwe</td>
<td>29.7%</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Namibia</td>
<td>28.8%</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>Egypt</td>
<td>26.9%</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>South Africa</td>
<td>26%</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Cape Verde</td>
<td>22.5%</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Mauritius</td>
<td>21.5%</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>Botswana</td>
<td>16.6%</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>Sudan</td>
<td>16.4%</td>
<td></td>
</tr>
<tr>
<td>82</td>
<td>Libya</td>
<td>13.8%</td>
<td></td>
</tr>
</tbody>
</table>

Source: International Telecommunications Union (ITU) –
See more at: http://www.itwebafrica.com/mobile/352-ghana/231724-ghana-has-africas-highest-mobile-broadband-usage-rates#sthash.mc35JWC.dpuf
Policy Objectives

To promote the development of communications infrastructure and services for national development;

To support the development of ICT Industry, Research and Development and networking among stakeholders.

To streamline and update regulatory laws and legislations in conformity with changing industry trends and monitor the creation of an even regulatory field to enhance fair competition and investment drive.

To facilitate investment in, and, strengthening of the institutional and human resource capacities in ICT to enhance quality service delivery;

To promote e-government and e-governance activities for transparency in Government business in the process of transforming the country into a knowledge economy/society;
# Broadband Targets

Securing download speed of at least 2 Mbps

<table>
<thead>
<tr>
<th>Targets</th>
<th>Year</th>
<th>Bandwidth</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Penetration</td>
<td>2012</td>
<td>2 Mbps</td>
</tr>
<tr>
<td>40% Penetration</td>
<td>2015</td>
<td>2 Mbps</td>
</tr>
<tr>
<td>90% Penetration</td>
<td>2020</td>
<td>2 Mbps</td>
</tr>
</tbody>
</table>
## Liberalizing International Connectivity

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of Operators</th>
<th>Price per E1 USD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>1</td>
<td>4,500.00</td>
</tr>
<tr>
<td>2011</td>
<td>3</td>
<td>2000.00</td>
</tr>
<tr>
<td>2012</td>
<td>5</td>
<td>400.00</td>
</tr>
</tbody>
</table>

### OPERATORS IN 2013

- SAT-3 Submarine -340Gbps
- Main One Cable -1.92 Tbps
- Glo-1 – 640Gbps
- WACS – 5.2 Tbps
- ACE – 5.2 Tbps
Terrestrial In-Country Fibre for Ghana

- NCBC Underground Fibre 24 Core
- Vodafone Underground Fibre 48-Core
- MTN Fibre connectivity
- Vodafone International Fibre Connectivity
- TiGO Fibre Connectivity
- Eastern Corridor Fibre MOC/Alcatel-Lucent

Navrongo
Construction of 780km Eastern Corridor Fibre project
EASTERN CORRIDOR OPTIC FIBRE CONSTRUCTION
COMMENCEMENT OF CONSTRUCTION OF EASTERN CORRIDOR LINK FROM WAMALE, TAMALE
Construction of 780km Eastern Corridor Fibre project
COLLABORATION FOR INFRASTRUCTURE SHARING
Reducing Cost of Internet - Bandwidth Prices Over the Years

- **Bandwidth Prices**

2007: $10,000
2008: $7,500
2009: $4,500
2010: $4,000
2011: $2,000
2012: $1,500
2013: $1,200
Government Infrastructure Initiatives

- Metropolitan Area Network
  Ministries Enclave (10Gbps) + 4 New 4Gbps Rings

- WAN - WiMAX Wireless Network (30 BTS) Upgrade to LTE + Increase 30 BTS this and incrementally by 60 annually for coverage of all Districts by 2015

- National, Secondary & Disaster Recovery Datacenters

- Over 12,000 LAN Ports in MDAs, Schools, Police station, hospitals

- Fiber cable – Eastern & Western Corridors
With the nationwide development of state of the art ICT infrastructure, the challenges for all of us as stakeholders include:

- Development of content
- Payment for ICT services
- Awareness creation
- Cyber security and protection of children from exploitation
Initiatives to Stimulate Broadband Demand

- Increase public awareness to demand, given the high costs of deployment of broadband networks, especially in rural and remote areas

- Partnership between Government and the Private Sector and Civil Society in promoting the development and extension of e-government services, which in turn stimulate demand for broadband services

- Lowering the cost of end-user terminals through import duty and other tax reductions and possibly subsidizing broadband equipment for social services in schools, hospitals, etc.
Initiatives to Stimulate Broadband Demand

- Supporting local, relevant, Internet content in local languages
- Educating citizens about the benefits of broadband while further developing Internet skills
- Ensuring that consumers have enough information on providers and pricing options as well as available technology
SIGNING ITU CYBER SECURITY COOPERATION AGREEMENT
THANK YOU FOR YOUR ATTENTION