

Climate Change Adaptation and ICTs: The Case of Ghana

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Outline

Background

1.ICTs and CC in Ghana

2.Setting an ICT and CC Policy Structure

3.ICT and CC Policy Process

Conclusion: Key Areas for Action



Background

- ITU's Sixth Symposium on ICTs, the Environment and Climate Change, Ghana, 7th-8th July 2011.
- Accra Call to Action: Recognition of ICT's role in Adaptation, Mitigation, Capacity Building and Technology Transfer:
 - Recognize that there is need to build capacities in developing countries to support ICT as tool for climate change adaptation and DRR.
 - Forge partnerships and engage all stakeholders to address climate change, due to its multi-disciplinary nature, is critical.



"Climate Change Adaptation, Mitigation and ICTs: The Case of Ghana"

http://www.itu.int/ITU-T/climatechange/report-ghana.html



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'How can developing countries effectively integrate ICT tools within climate change adaptation and mitigation strategies?'









Impacts of Climate Change in Ghana



•Temperature has increased by 0.6 -0.8 °C since 1960.

 According to the Environmental Protection Agency (EPA), by 2080 the rainfall will decrease by 20% to 40% while the temperature will rise by 4.5 °C

"Ghana is projected to become hotter and wetter during the wet season and drier during the dry season, with **increased sea level rise** and **storm surges**" WB, 2011.







"Africa's contribution to greenhouse gases is low; however the continent is suffering the most in terms of the **effects of climate change**.

Cocoa for instance could become a rare crop in the next 15 years if something is not done to reverse the effects of climate change."

H.E. John Dramani Mahama, President, Ghana

Pressure on water resources

Human health and infrastructure

•The **rainfall pattern** is affecting cocoa and maize production, impacting **livelihoods and food security**

Pressure on internal migration



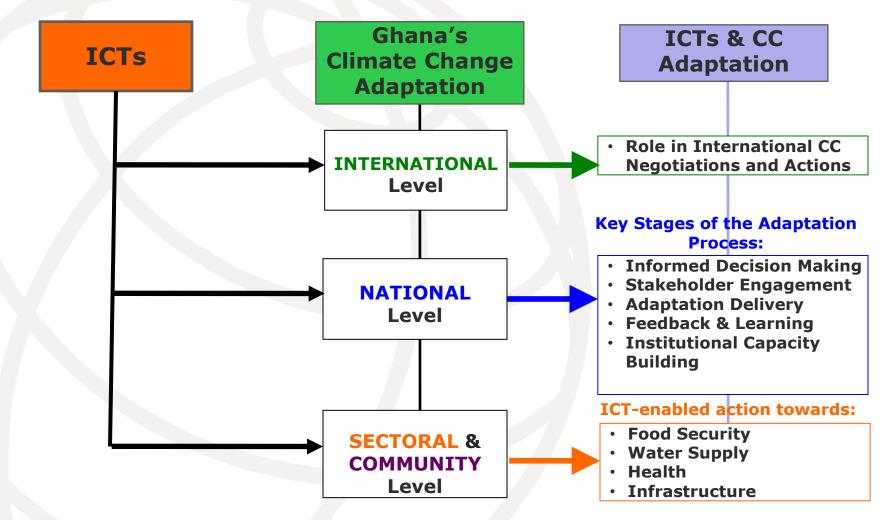


Key ICT Sector Developments

- Rapid growth in mobile penetration
- Increasing availability of, and falling prices for, international bandwidth
- Development of the Ghana Internet Exchange (GIX)
- New e-Government telecommunications infrastructure
- Deployment of the Ghanaian government's new data centre

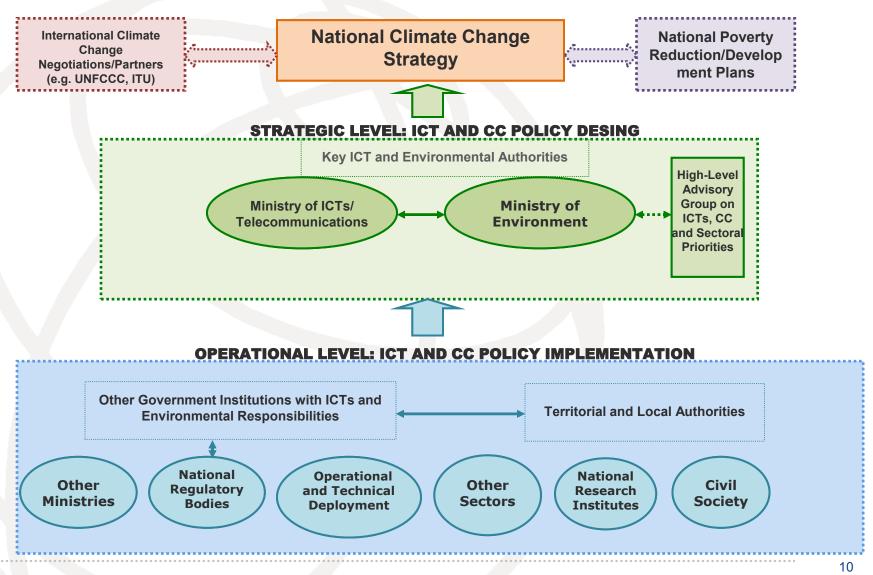


1. ICT and CC Adaptation at Different Levels: The Case of Ghana



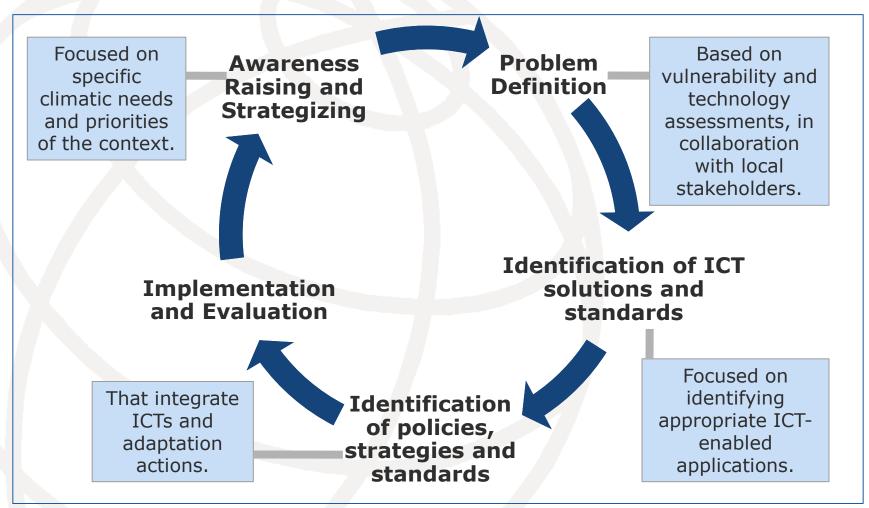


2. Setting an ICT and CC Policy Structure





3. Policy Process for the Integration of ICTs and CC





Conclusion: Key Areas for Action

- **ICT, CC and urban adaptation based on flexible,** combined approaches that prioritize the **local context.**
- ICT, CC and urban adaptation as LT strategy that integrates content, structures and process.
- **ICT, CC and urban adaptation** as an opportunity for innovation: research AND practice.
- ICT and CC adaptation strategies based on a 'Climate-Smart Development Vision': Smart Implementation.
- New research on ICTs and CC adaptation considering: urbanization trends, informal settlements, city planning, governance, infrastructure and inclusion, among others.



THANK YOU

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