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MINISTRY OF COMMUNICATION, SCIENCE AND TECHNOLOGY

Investment in ICT in Tanzania

By
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The Role of Government in Providing Broadband

- ✓ ***Building a Country Wide Converged Multi-Service ICT Infrastructure:***
 - ***The National ICT Broadband Backbone (NICTBB)***
 - ***Science and Technology Higher Education Project (STHEP)***
 - ***Regional Communications Infrastructure Program (RCIP).***
 - ***Metro Fiber Infrastructure in Urban Areas Project (PPP)***
-

Improving Service Availability Countrywide:

- ✓ **Connectivity** - *Service Availability – The National ICT Infrastructure Development Program:*
 - *NICTBB a national Agenda -To avoid duplication of efforts*
 - *Integrated Project Planning – Focused Capex*
 - *Each Ministry, Department and Agency (MDA)/Higher Learning Institution (HLI) to be Connected to the NICTBB – a competitive advantage*
 - *We continue investing ahead of Demand in all sectors of our economy: a strategic Developmental Move.*
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NICTBB

National ICT
Broadband
Backbone

Project Cost: *Investment in ICT Infrastructure Development*

- ✓ **NICTBB: USD 170m + TZS 30billion from GoT.**
 - Phase I: USD70m:TZS17billion
 - Phase II: USD100m:TZS13billion
 - ✓ **Metro (PPP): USD 80m.**
 - ✓ **RCIP: USD 100m**
 - ✓ **HERIs: USD 7m**
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NICTBB

**National ICT
Broadband
Backbone**

Project Schedule

Decision: 2004

Decision: 2005

Feasibility Study I: 2005

Feasibility Study II: 2007

Technical Agreement I: 2007

Financial Agreement II: 2008

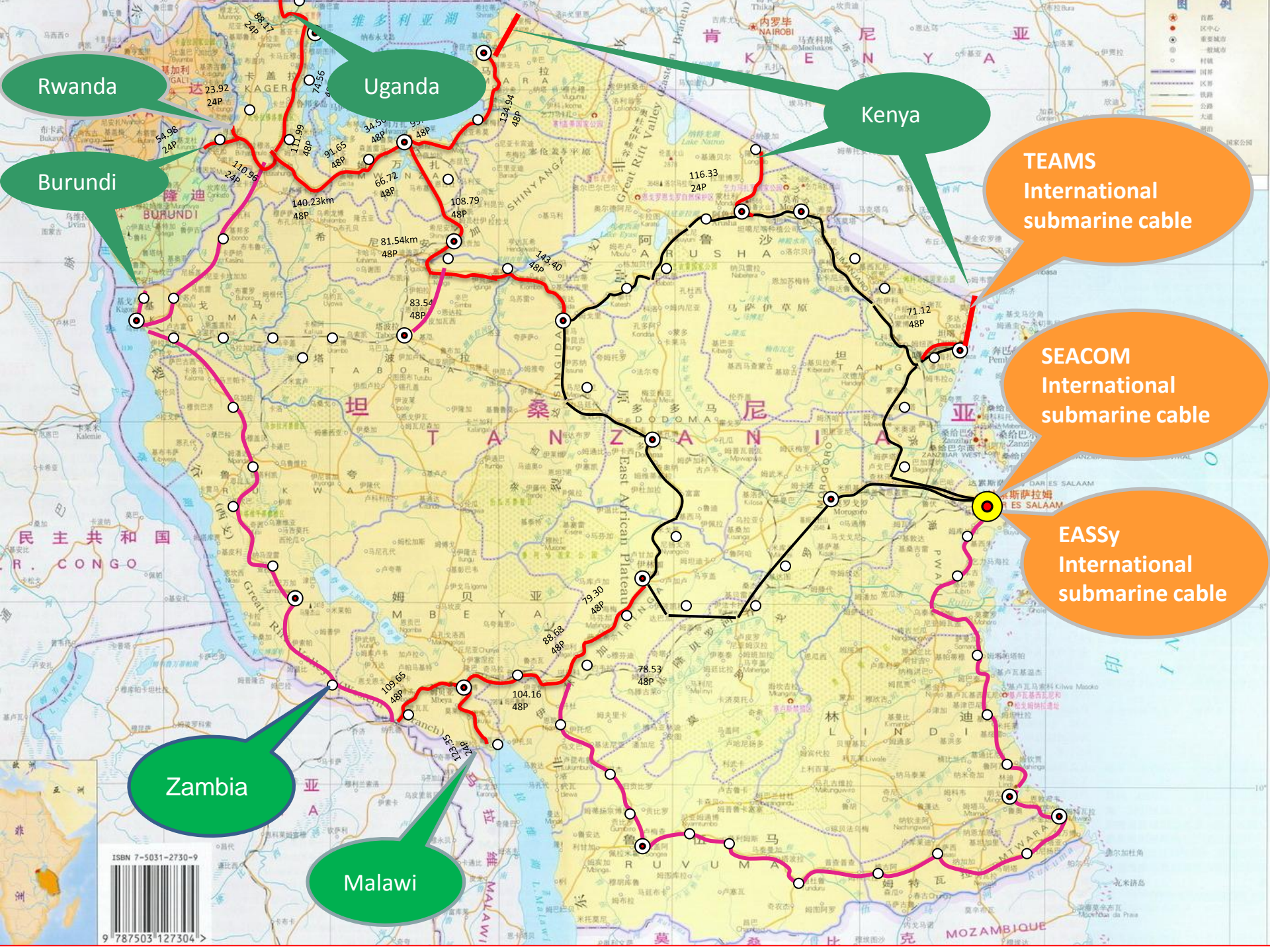
Phase I Effective Date: 1st Feb. 2009, delivered in June 2010.

Phase II Effective Date: 1st Aug. 2010, to be delivered in March 2012.



Project Specifications

- **National coverage – 10,000km** (All Districts & Regional HQs)
 - **Cross-border connectivity to neighbours** (8 countries)
 - **Adequate super-highway capacity** (10G x 40 lambdas/pair)
 - **Reliable and resilient** (Ring-based, Mesh-based)
 - **Speedy connection at global level** (3 sea cables = SEACOM, EASSy, TEAMS)
 - **Switching Capabilities** (DWDM, IP, SDH)
 - **Secure and high availability:** A three ring topology
 - **Easily accessible:** open access, non discriminatory terms to all service providers.
 - **Affordable services** (STM1s, ...STM64s, FE, GE)
 - **Utilization** (last mile Broadband connectivity)
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Rwanda

Uganda

Kenya

Burundi

TEAMS International submarine cable

SEACOM International submarine cable

EASSy International submarine cable

Zambia

Malawi

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NICTBB

**National ICT
Broadband
Backbone**

Impact @Speed of Thought:

Redefining Everything we Know....

- ✓ *e-Government*
- ✓ *e-Education, e-Learning*
- ✓ *e-Health,*
- ✓ *e-Medicine, Tele-Medicine*
- ✓ *e-Agriculture*
- ✓ *e-Banking*
- ✓ *e-Commerce, e-Business*
- ✓ *e-Tourism*

Metro Fiber Infrastructure Project

- ✓ ***A 90 km Metro Optic Fiber Infrastructure Project in Urban areas to complement the NICTBB.***
 - ✓ ***USD 80 million Investment between the Government and Consortium of Telco Operators (TIGO, ZANTEL and AIRTEL).***
 - ✓ ***The project is implemented by the Consortium of Telco Operators.***
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Science and Technology Higher Education Project (STHEP):

- **The long term objective- to enhance Tanzania's capacity to apply knowledge to economic activities through strengthening the higher education system.**
 - **Coordinated by Ministry of Education and Vocational Training (MoEVT) and Ministry of Communication, Science and Technology (MCST).**
 - **Laying ICT Infrastructure network to connect Higher Education and Research Institutions (HERIs) in Tanzania. A \$7 million financing by IDA for ICT Infrastructure.**
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Regional Communications Infrastructure Program (RCIP):

- The RCIP – Tanzania is aimed at catalyzing private sector investment to improve connectivity within and outside Tanzania and it is intended to achieve the following objectives:

- (i) Connectivity development
- (ii) Transparency development

- The objectives are in line with the National Development Vision 2025, MDGs of 2015 and the National ICT Policy (2003) that envisage Tanzania to become a Regional **HUB OF ICT INFRASTRUCTURE AND SOLUTIONS**

Regional Communications Infrastructure Program (RCIP):

- RCIP Tanzania is a five-year Project with US\$ 100 Million credit funding from IDA.
 - RCIP - Tanzania Project Components:
 - (i) Component 1 - **Enabling Environment** :
To build and strengthen internal capacity for the formulation and review of policy, regulatory environment, and promote further sector reform; review and improve on institutional arrangements for the implementation and operation of the National ICT Broadband Backbone network.
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Regional Communications Infrastructure Program (RCIP):

- (ii) Component 2 – **Connectivity** : Facilitate the connectivity and requirements for cross-border facilities and services at all Tanzanian border points. Support the operationalization of the Universal Communications Access Fund (UCAF).

 - (iii) Component 3 – **e-Government Applications** : This will facilitate the implementation of e-Government applications of: National Business Portal ; Pilot exercise on e-Procurement for Medical Stores Department (MSD); Tele-medicine system; National Vital Registration System; and Enhancing accessibility to the public of Land Records.
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Regional Communications Infrastructure Program (RCIP):

- (iv) **Component 4 – Project Management Support**
Strengthen the institutional arrangement; and provide support to the coordination of the implementation of the project in relation to Project Management.
- Project implementation is coordinated by MCST and the President's Office-Public Service Management.
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Mitigating ICT adoption Challenges:

- ✓ **Connectivity**- *Service Availability*
 - ✓ **Electricity**- *Energy to Power ICTs*
 - ✓ **Affordability** - *Service Tariff*
 - ✓ **Capability** - *The HR Function*
 - ✓ **Security**- *Cyber Crimes*
-

ICT As a Public Staff Number Multiplier:

- ☞ **National Teachers/Doctors**
- ☞ **Zonal Teachers/Doctors**
- ☞ **Regional Teachers/Doctors**
- ☞ **District Teachers/Doctors**
- ☞ **Division Teachers/Doctors**
- ☞ **Ward Teachers/Doctors**
- ✓ **Teachers/Doctors tied to an Institution (School, college, Dispensary, or Hospital,) teachers/Doctors**

✓ **Increase of No. of Teachers/Doctors?**

✓ **Access to Quality Services?**

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