

# RESEARCH AND DEVELOPMENT PROJECT

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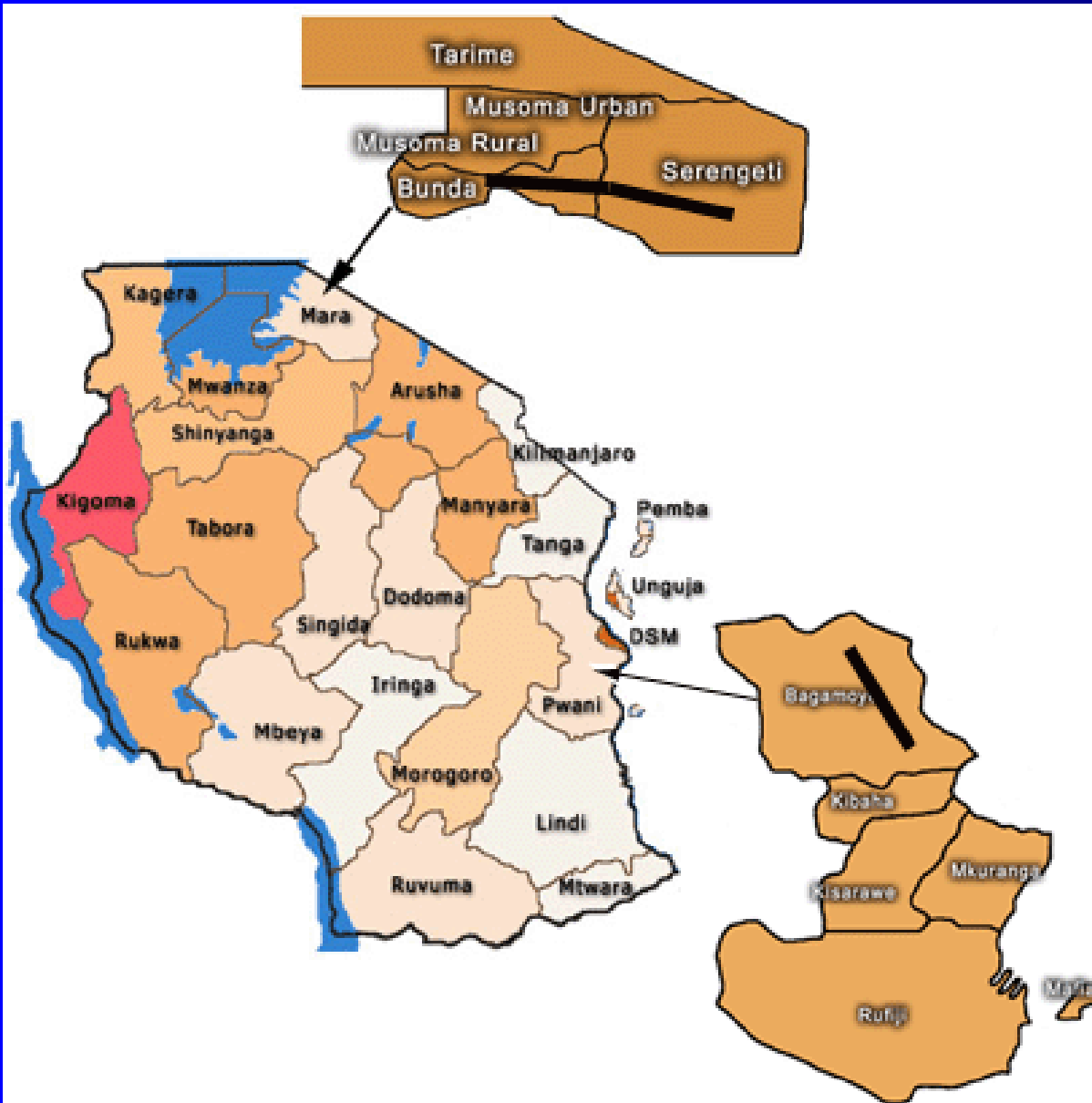
## INFORMATION AND COMMUNICATION TECHNOLOGY FOR RURAL DEVELOPMENT (ICT4RD) IN TANZANIA

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Prepared on: March, 2007 for PID

# SERENGETI AND WAMI PILOT AREAS



- Population (2002- census)
- Mara=1,369,000
  - Bunda=260,000
  - Serengeti=177,000
- Coast = 900,000
  - B'moyo=230,000

# ULTIMATE GOAL

- Functioning broadband in pilot areas
- A draft proposal for low cost connectivity
- NOTE:
  - Local connectivity is our primary goal
  - Upstream: Any cheap and appropriate technology

# OBJECTIVES

- To design an approach to ICT-based rural development in Tanzania to be the basis for a development program
- To identify end-users needs and ability to pay for their services
- To identify and test different business models for sustainability
- To propose and test methods that can be scaled up on a national level

# APPROACH

Initial focus of the project :

**(a) Service sectors**

Promote ICT applications in Healthcare, Education, local administration and SMEs

**(b) Infrastructure**

Use of existing infrastructures (wired and wireless)

**(c) Cooperation**

Seeking cooperation with partners already working with healthcare, school, local government administration and small businesses.

# STRATEGY

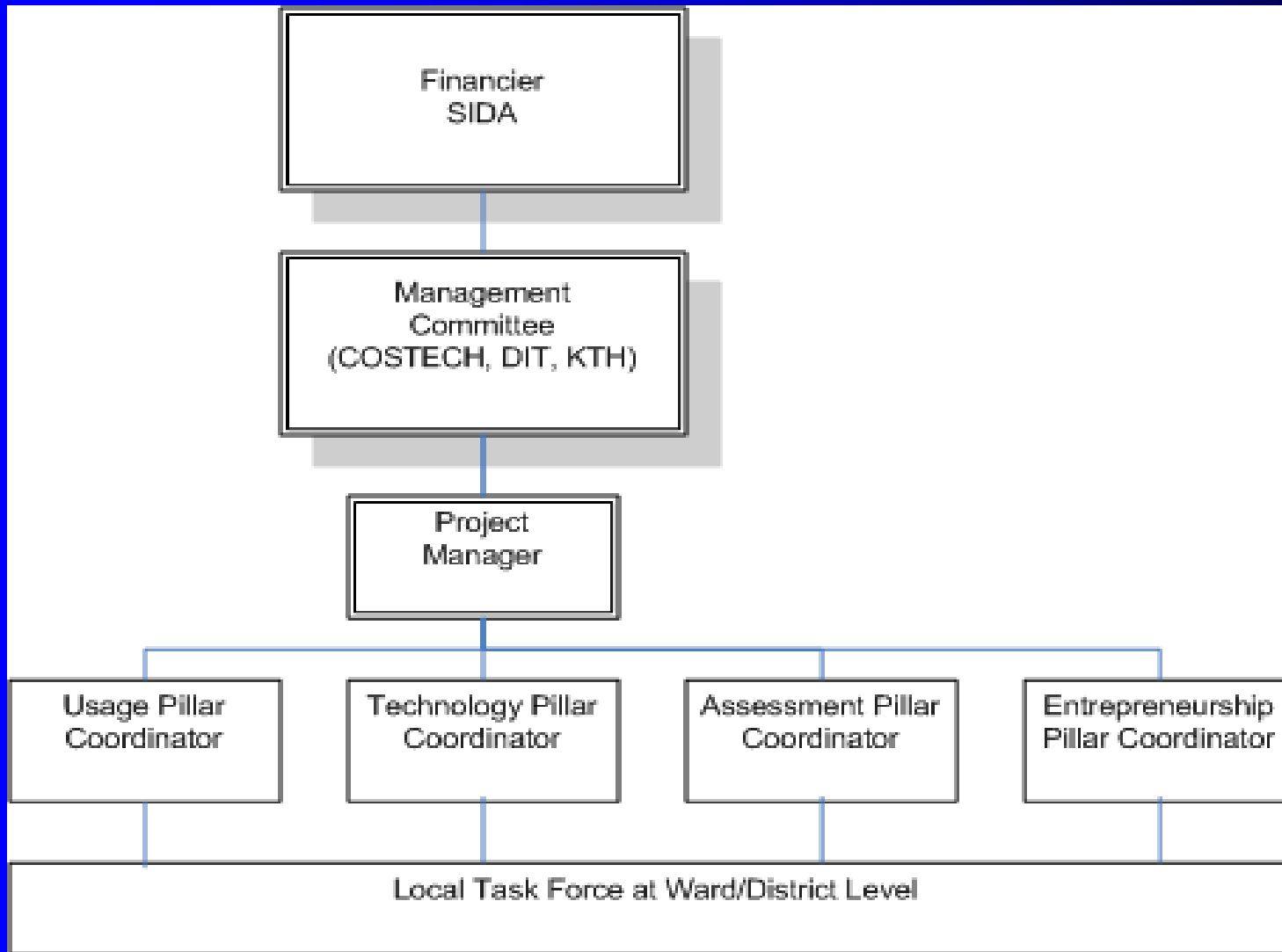
(a) **Technology & Technical solutions are tested in pilot sites based on:**

- (i) Availability of redundant/ under-utilized infrastructure
- (ii) Type of Business models
- (iii) Degree of Awareness and Capacity
- (iv) Geographical Coverage
- (v) Relevance to key application areas

(b) **Work organization:**

- (i) The bulk of work is done by students working for stakeholders in multi-stakeholder partnerships generating
  - Individual degrees (Certificates, MSc and PhD)
  - Organizational certification
  - Consortia Learning

# PROJECT MANAGEMENT



Management Committee (MC) composed of organizations receiving funds and responsible for:

- R&D (COSTECH); Capacity building (DIT, KTH)
- Project Manager: Coordinating project activities

# PILOT SITE STATUS

- SERENGETI

- Backbone is already connected
- One health center (Nata) and a district hospital (Mugumu) are connected
- Not operational due to technical problem in the backbone (work in progress to rectify)

- Wami

- Work in progress, hoping to finish beginning of May 2007.
- 3 health centers, 2 secondary school and 3 offices will be connected

# INITIAL SERVICES OFFERED

- File transfer and sharing
- Emails
- Tele/Video conference
- Voice
- Telemedicine (All the above)

# CHALLENGES

- Getting agreement with infrastructure owners
- Government involvement
- Strong Public-Private-Partnerships (PPP)
- Availability and reliability of power supply
- Rural
  - Low purchasing power
  - Low density
  - Computer illiteracy
- Etc..

# WAY FORWARD

- Development

- National Workshops (wider involvement of other stakeholders)
- Improving the pilot sites

- Capacity building

- Starting a Project oriented Course at DIT – May 2007
- Local workshops and seminars to create awareness
- Training local users

# Research Areas

- I'm working on the infrastructure especially on how to interconnect the different local networks
- PID members are welcome to contribute in other areas like the socio-economy aspect