

Wireless Africa

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Profile of project area

- **LinkNet currently helps at four sites, Macha, CHAZ (Lusaka), Mukinge & Chilongolo (Lusaka).**
- **Macha**
- **Estimated 128,000 / 35 km radius**
- **Health and education**
- **Subsistence farmers**
- **Average income 500 U\$D**
- **Connected to National grid, mostly stable, though can be unstable some days.**
- **Internet connectivity (via satellite link), GSM connectivity**

Site selection

- **ICT awareness public conferences**
- **GSM is also available in Macha.**
- **A needs assessment research was conducted in collaboration with TNO.**
- **The other local actors; Hospitals and Schools.**

Description of project network

- **Satellite link, point to point/mesh**
- **Wireless network diagram, (last slide)**
- **17 employees**
- **New sites – donor funded**
- **Client sustained**
- **Wireless is legal while VoIP not legal in Zambia**

Business models

- **Four Institutions**
- **Appr. 130 users**
- **No feedback yet**
- **CHAZ 10K USD, MIAM 6,3K USD, Users**
- **MMH, MGH, Users**

Challenges & Lessons learned

- Payments
- Funding setting up new sites
- Mesh Network Technologies
- Power
- Good network management
- Equipment supplies
- Know-how (Linux)

Way forward

- **I would refer you to our website. Please download our Master Plan. It has all the information you may need.**

LINKNET NETWORK TOPOLOGY @MACHA 17/8/06

