

WMO Multidisciplinary Workshop an Expert Meeting on the Exchange
of Early Warning and Related Information including Tsunami
Warnings in the Indian Ocean
Jakarta, 14-18 March 2005

Current Status of Global Telecommunication System in Mozambique

Mozambique

1. Main Telecommunication Network.

The National Telecommunication Network comprises of 3 (North, Center and South) Regional Centers and 1 National Center.

Regional Centers – Centers to collect information from stations at the region via HF Radios.

These Centers are equipped with HF Radios and leased line at 64Kbps to the National Center.

National Center – Center to collect information from the Regional Centers via HF Radio

This Center is equipped with a Message Switching System with digital connections (64Kbps) to Pretória, Beira and airport.

2. Data acquisition and transmission

For data acquisition Mozambique have installed the following ground systems

- PDUS/MDD
- MSG
- SADIS
- Message Switching System

Internet

All information collected from Regional Centers is concentrated on the MSS and sent to GTS via South African RTH using a digital line of 64Kbps. Stations equipped with Internet facilities send their data directly to a MSS and routed automatically to a GTS.

The dissemination of information is done via Internet and Fax.

3. Contribution to TEWS.

Hydrographical observations are made by National Hydrographic and Marine Institute and seismological by Geophysics Department at Geological Directorate. There is no connection from these institutions to the Meteorological Institute.

For Meteorological Institute to contribute to TEWS there is a need to have connection to those institutions in order to route their possible data to GTS.

4. Main constrains.

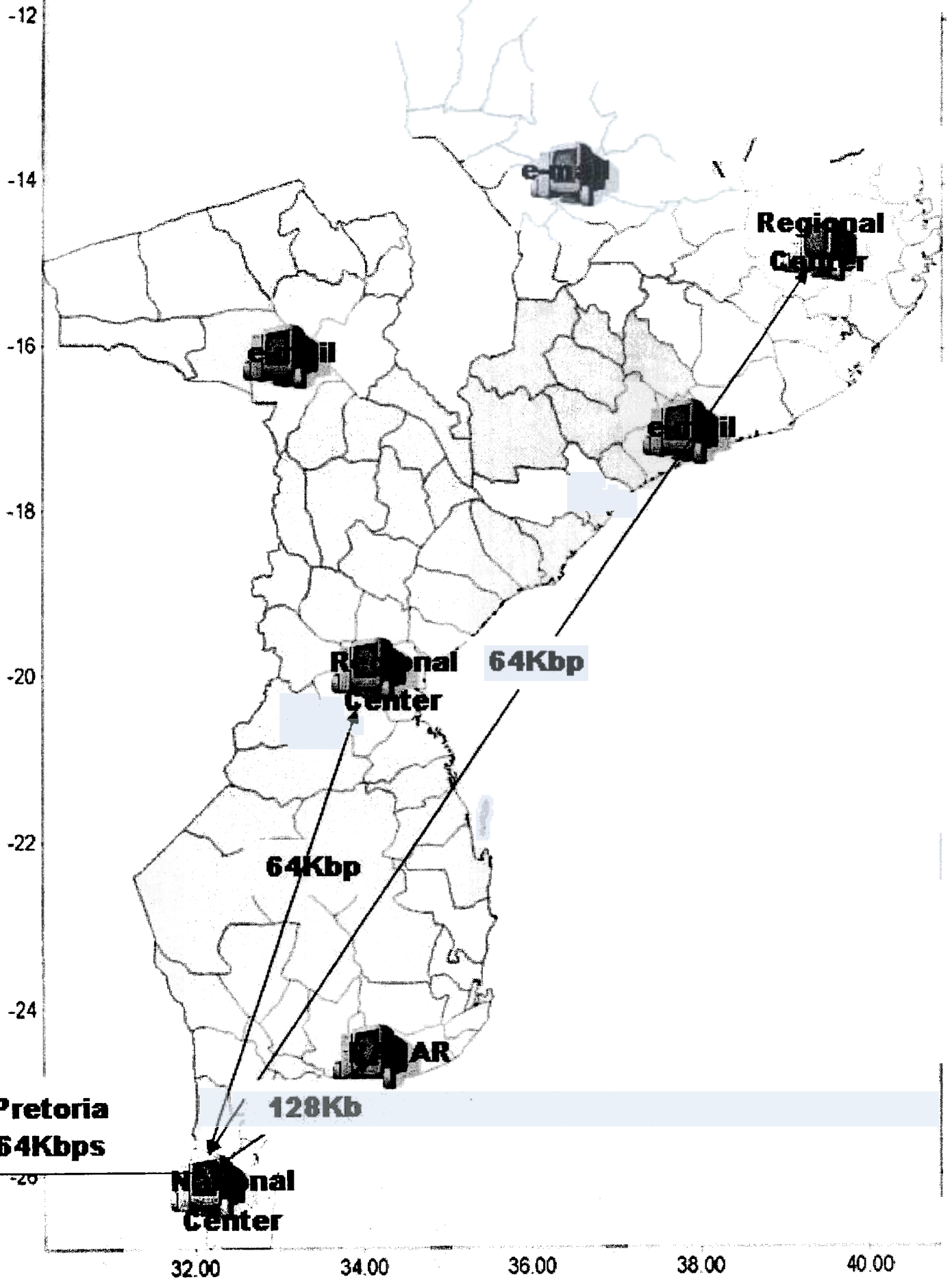
Meteorological Institute Mozambique is a Governmental institution running on national budget. Telecommunications represent 25% of the budget allocated to INAM.

Table 1 - Monthly telecommunication expenses.

Circuit	Bandwidth	Monthly cost (USD)
Maputo - Pretoria	64Kbps Micro Waves	2,300.00
Maputo – Beira	64Kbps Fiber Optic	1,400.00
Maputo – Nampula	64 Kbps Satellite	1,800.00
Maputo – Airport	64 Kbps Local	150.00
Maputo – Xai-Xai	128 Kbps Fiber Optic	1,700.00
Internet	64 Kbps	520.00
e-mail	Dial up for 4 stations	890.00
TOTAL		8,760.00

For INAM's GTS to contribute to TEWS shouldn't increase the actual telecommunication expenses by updating the bandwidth of current connections due to a volume of data to be routed or by adding expensive connections.

Fig. 1 - Telecommunication map



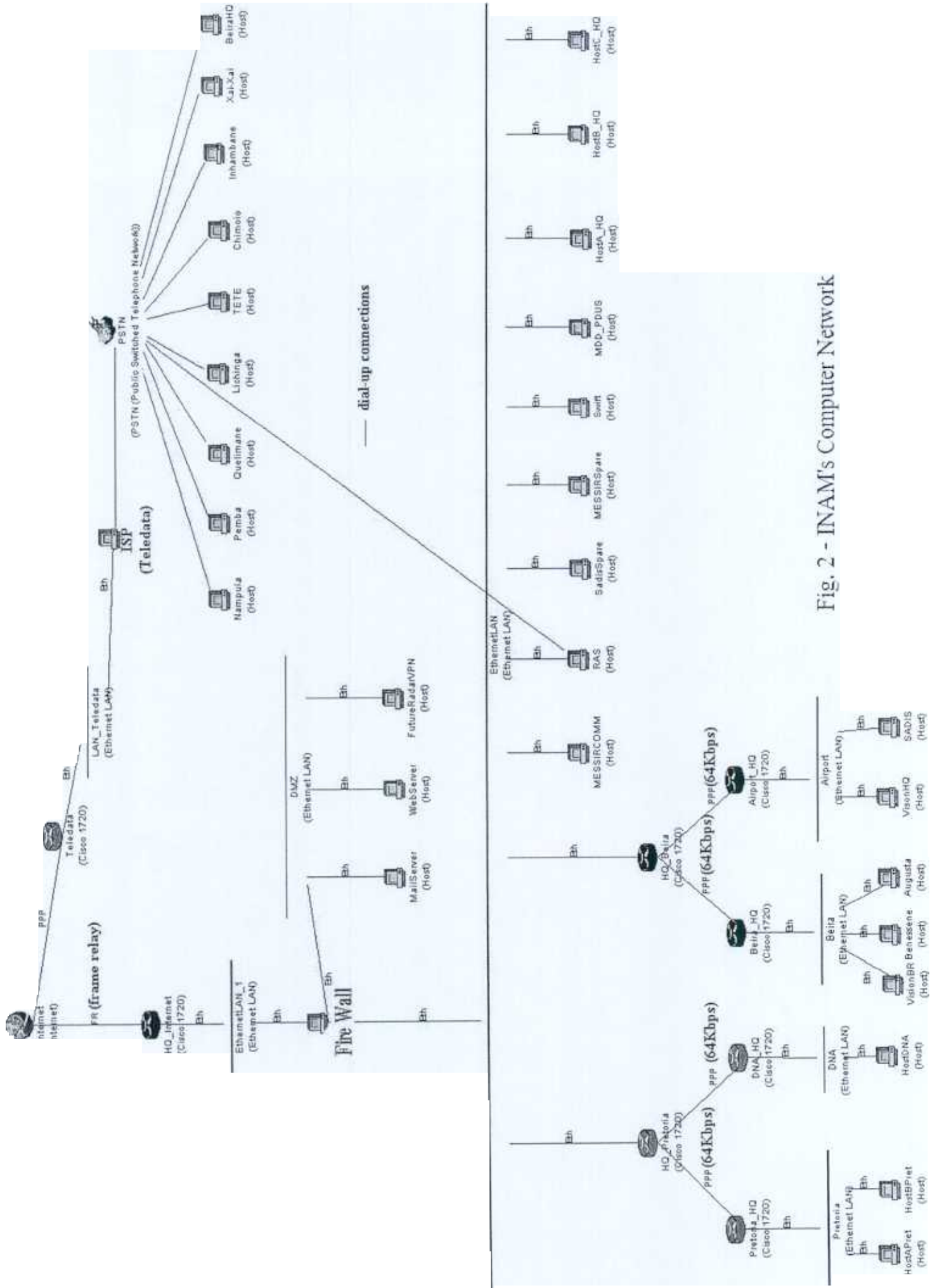


Fig. 2 - INAM's Computer Network