

Finding Inquiry For Broadband Network Region: Gaza Abstract Proposal

Introduction:

This is an abstract paper, or can be called concept paper for Broadband network. We selected Gaza strip as sample, cause of:

- Gaza is 40% population of Palestine
- Continuous entity, where no Israeli troops/Camps and no settlements.
- Its geographical topology is flat in normal.

This abstract proposal illustrates the way the network will cover the Areas.

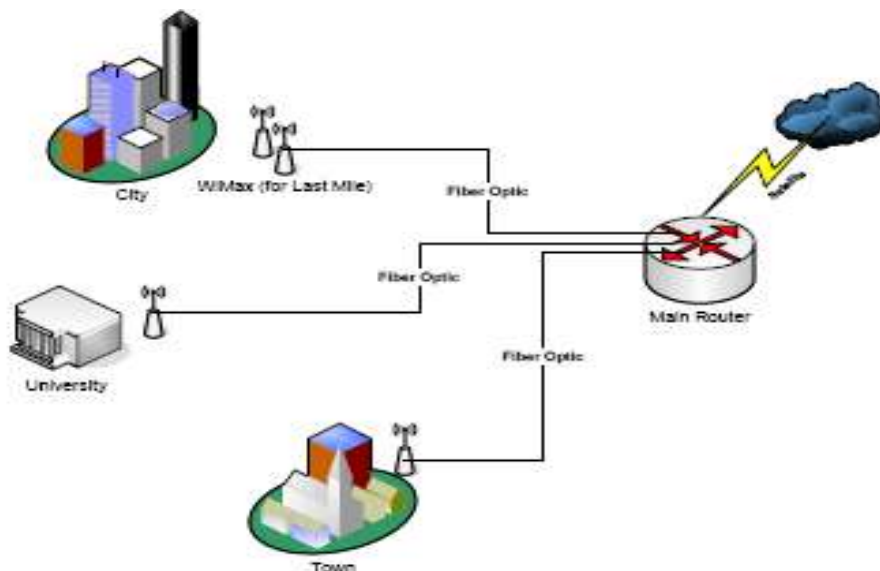
This proposal prepared for Dr. Harazin project/Gaza International Foundation for Peace on Earth, Gaza Strip, and Palestinian Authority.

Network Topology:

The broadband network proposed assumes the following technologies:

- Satellite download/upload through 1 main station in Gaza, and one backup station. 45MB download bandwidth. We cans start with lower bandwidth; this depends on the wide of the services to provide.
- Fiber Optic backbone connecting the main (and the backup station) to the main WiMAX access points covering the areas.
- WiMax access points distributed over the area to give the service for Last Mile. Each access point can serve up to 100 users.

**Satellite /Main Router/ Fiber Optic /Town
Satellite/ Fiber Optic/University
Satellite/ Fiber Optic/ WiMax (for Last Mile) City**

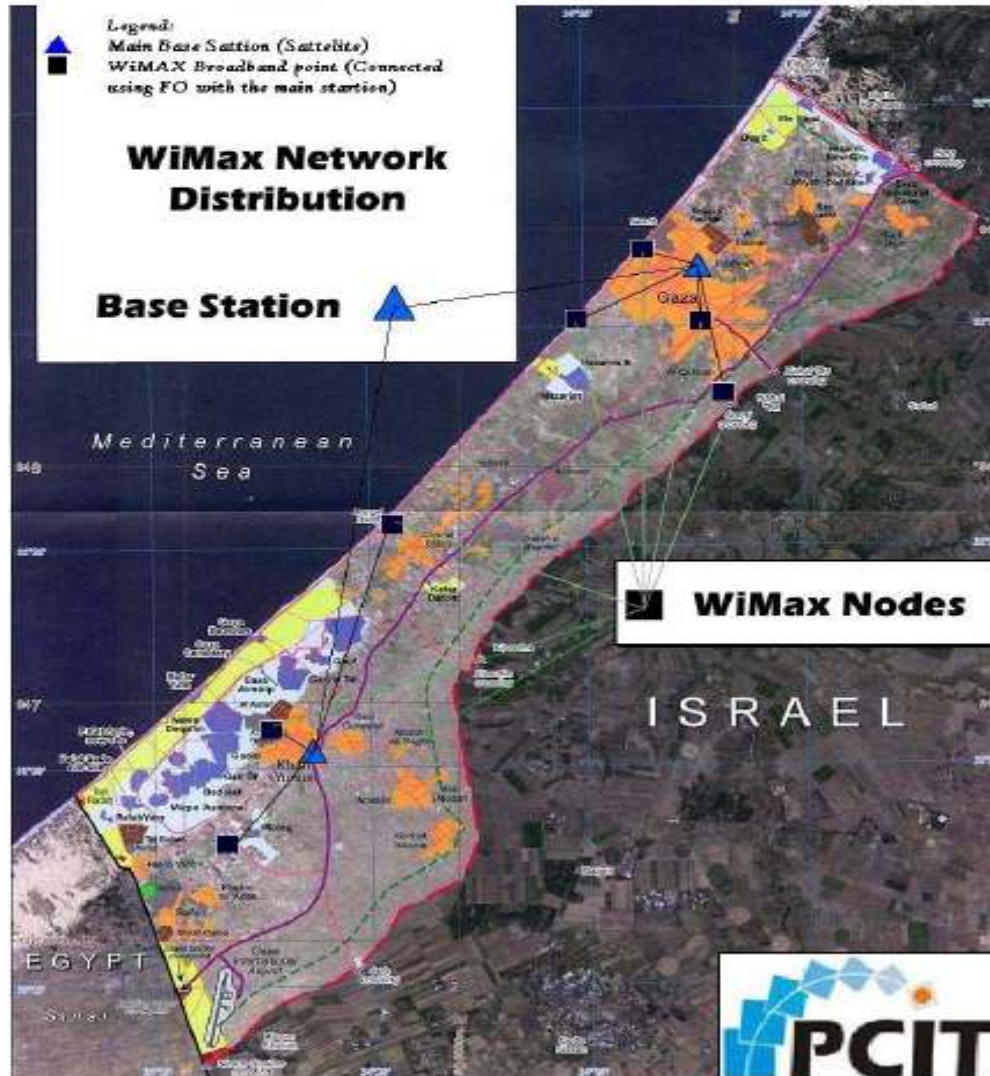


Methodology of the project:

Such project requires the following methodology to go into details and planning for implementation:

1. Detailed study to be conducted, to specify the technical specifications.
2. Detailed field survey to determining the perfect WiMAX wireless points.
3. If there are some restrictions on the upload using satellite, we may think to have Download only from Satellite, and make the upload using wired services with main provider.

This requires budget for the study which approximately around \$30,000 for Gaza area.



Dr. Fouad M. EL-Harazin, President
Gaza International Foundation for Peace on Earth
National Research Center-Gaza
Gaza Strip, Palestinian Authority
Tel/Fax: + 970 8 2824157
Mobile: + 970 599 334413
www.gifpeace.org