

*Customer:* Loteny Telecell

*Project:* Measurement of cellular network site coverage and monitoring

*Duration:* 1998 – 1999

*Scope:* Measurement of the coverage of a cell network in Abidjan (Côte d'Ivoire)

*Value:* \$0.4M

*Highlights:*

- The project consisted of evaluating and optimizing the performance of a GSM type of cell network in Abidjan.
- Location and monitoring of 120 cells.
- Individual coverage measurements of 120 cells.

*Description:* On this project, VIASAT GeoTechnologies was responsible for locating the transmission sites, measuring cell coverage and calculating interference matrices for planning the frequency map.

Cell coverage measurement was the first step in the network optimization process. The primary goal was to determine, as accurately as possible, the actual coverage of each sector forming the network. The secondary objective was to use the measured coverages to calculate the compatibility matrices of all cells. The results of the coverage measurements and compatibility calculations were used throughout the steps in the network optimization process.

*In images...*

