

Client: MTN  
Value: R 1million (Fees)  
Services: Route survey, fibre cable route design  
Project Duration: April 2015– Ongoing

# Fibre to Sites, Cape Town Region

## Fibre Optic Cable Route Survey & Detail Design

### The Task

As part of a project to increase the coverage and data capacity of MTN's existing cellular network in the Cape Town region, ZTE was contracted by the client to design and install new cell towers and upgrade links between existing towers to fibre optic cables. Nurizon was subsequently contracted by ZTE to assist with the design of fibre to the site (FTTS), between these sites.

### Design Services

Nurizon was responsible for the survey of the new routes, route determination and the detail design of the fibre routes to, and between, the tower sites. The milestone deliverables for the project included detail design drawings and bills of quantities. Deliverables were submitted to MTN (via ZTE) to be approved before the schedule commencement of construction.

### The Result

The initial route survey, engineering difficulties assessments and solution designs, together with the FTTS route designs were completed and delivered to the client.

At the time of publication, approvals for the detail design drawings are pending approval. Once installed however, the new fibre connections to the sites will improve signal quality in the region and along with the new tower sites, cellular coverage.

