

2G/3G/4G RADIO N/W PLANNING | SPECTRUM RE-FARMING & DENSIFICATION FOR A TIER 1 TELCO IN EGYPT



KEEPING CUSTOMER EXPERIENCE FIRST

TCTS successfully completed spectrum re-farming, a cost efficient densification solution, for tie 1 telco in Egypt to improve 4G network performance without impacting existing 2G/3G network KPI's. It improved overall user performance and gave competitive edge to the operator.

KEY SOLUTIONS FACETS

- Minimal impact on legacy network through combination of all N/W layers
- Analytics based cost effective solution
- 3D Modelling identification of weak buildings in the area
- Optimisation solutions best fit for the N/w solving maximum problems for maximum number of people
- Analytics based prioritization of areas for gaining maximum ROI on solution deployment

TCTS DIFFERENTIATOR

- 3D N/w simulation views for high resolution and clear images of weaker buildings
- Ultra high-resolution satellite imagery to model indoor walls of the buildings as well to improve n/w performance indoors
- Design solutions basis on the availability of the same with operator and simulations comparison for gains/losses for all the solutions

BENEFITS DELIVERED

- **Cost Optimization** : Next Gen Platform modelling of the network is done at very high resolution and thereby reduces the requirement for new radios
- **Operational Efficiency** : Incorporate all the available data sources with the operator along side CS data, Demographics , Satellite imagery etc. to give a single layer view of pain points and solutions for them
- **N/w Statistics Improvement** : Solutions to solve maximum problems for maximum number of people
- **OPEX Reduction** : Next Gen Platform modelling speeds network optimisation by greatly reducing drive testing and walk testing efforts
- KPI retention

