

LOWER BAND CARRIER INTRODUCTION & 4G/5G DENSIFICATION FOR A TIER 1 OPERATOR IN SPAIN

What We Delivered

TCTS introduced LTE 800 MHz in Downtown Madrid and identified HOTSPOTS for 4G/5G Densification for 324 sites maintaining design thresholds of RSRP as -106 dbm & Throughput as 3Mbps. TCTS analysed 3 bands (800, 1800 & 2600) to identify potential areas of 5G and 3.4Ghz deployment

HOW WE DID IT

- CSCB (Crowd Source Competitive Benchmarking) data used to identify actual problems (SINR,RSRP,RSRQ) faced by the users
- Grid by Grid analysis & solutions to mitigate n/w performance issues
- Analytics to help operator prioritize areas which were worst and would yield maximum ROI post deployment of solutions
- Business analytics to provide Impact of addition of new carrier (Traffic intake) vs Cost associated & ranking of same

WHY US

- Competitive Benchmarking
- Optimisation recommendation
- 3D N/w simulation views to give a clear picture of buildings which lacks in performance
- Ultra high-resolution satellite imagery to model indoor walls of the buildings as well to improve n/w performance
- 5G Solutions for areas where no other densification solution would have an impact
- Indoor & Outdoor Design EFFICIENT AND FLEXIBLE
- Single Platform Enabling FASTER TTM

BENEFITS DELIVERED

- **Cost Optimization** : High resolution Next Gen Platform modelling
- **Operational Efficiency** :Single Layer View
 - Network Performance improvement
 - SINR Improvement : **25-300%**
 - DL Throughput Improvement : **7-43%**
- **N/w Statistics Improvement**: End User Throughput Improved by 10% over Optimised N/w Post addition of 36 Carrier

