

omnitele

Operator success case:
Fast track to maximal RAN performance

Omnitele combines decades of telecom expertise with modern data science based on AI to enable Operators to maximise their RAN performance

CUSTOMER BENEFITS OF OMNITELE RAN DESIGN DIAGNOSTICS

QUALITY UPSURGE



20-50% improvement with existing assets & without investment

execution fully remotely

CAPEX SAVINGS



20-30% savings in annual RAN investments

based on existing network data

STRATEGY VALIDATION



Optimised & future proof LTE-5G strategy

concrete action plan delivered



OPERATOR SUCCESS CASE

Omnitele supported the flagship of an international operator group in analysing the improvement potential of their Radio Access Network

EXECUTIVE SUMMARY

BACKGROUND

- Flagship operator of a big group wanted to ensure their network performance is world class
- International benchmark indicated data Quality of Service (QoS) could be improved
- Omnitele was invited to diagnose the radio access network and to quantify potential improvement areas
- Recommendations were mainly based on maximising the value of the existing assets
- Additional Capex was only to be used when clear business case with immediate return

RESULTS

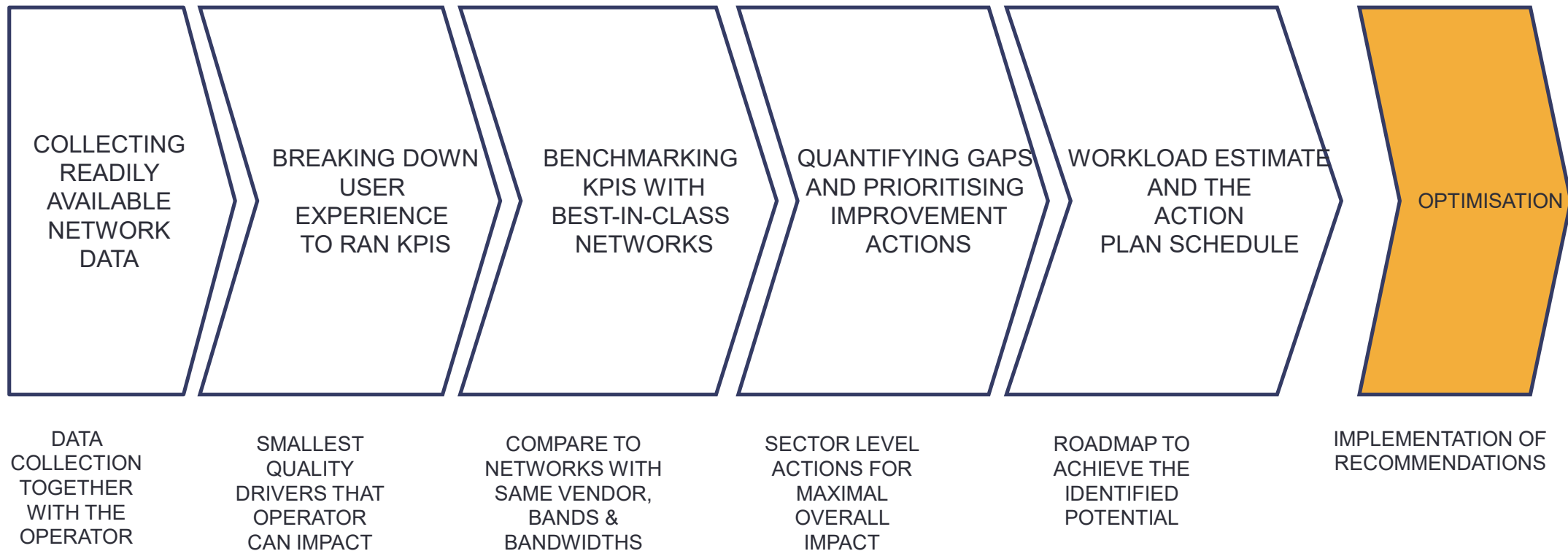
+56% increase in downlink user throughput
with existing assets & without investment

+12% additional increase in downlink user throughput with investment

-25% reduction in under 10 Mbps user throughput cases without investment

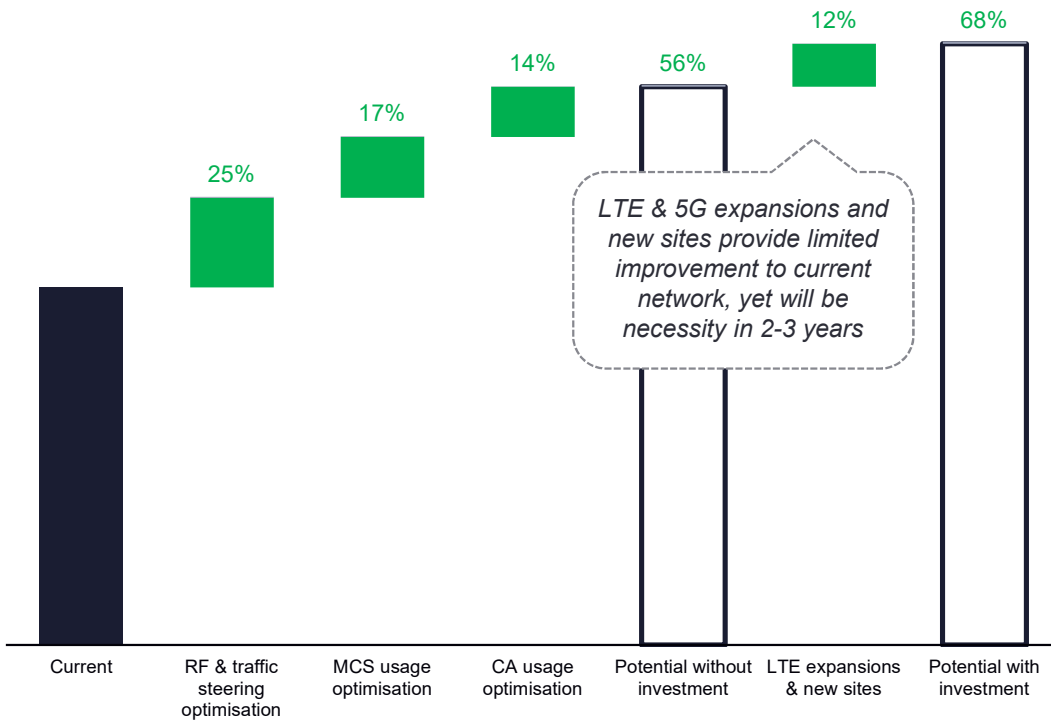
Omnitele followed proven *RAN Design Diagnostics* approach

OMNITELE RAN DESIGN DIAGNOSTICS APPROACH

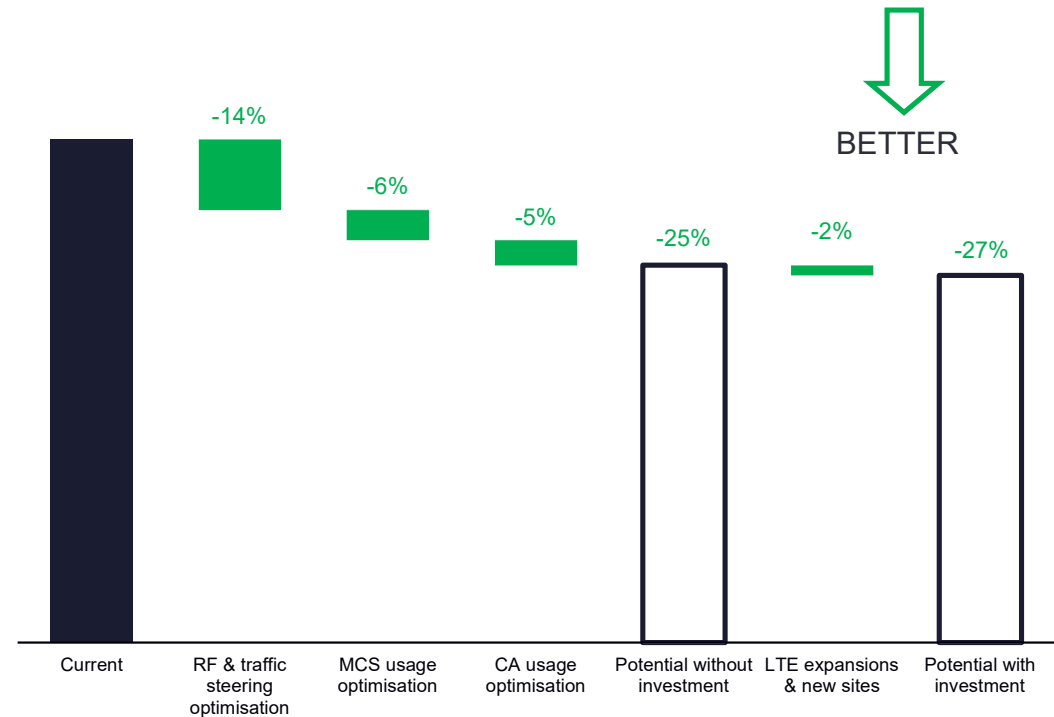


The prioritised list of actions can deliver +56% improvement in downlink throughput with existing assets & without investment

IMPROVEMENT POTENTIAL ON AVERAGE DOWNLINK USER THROUGHPUT

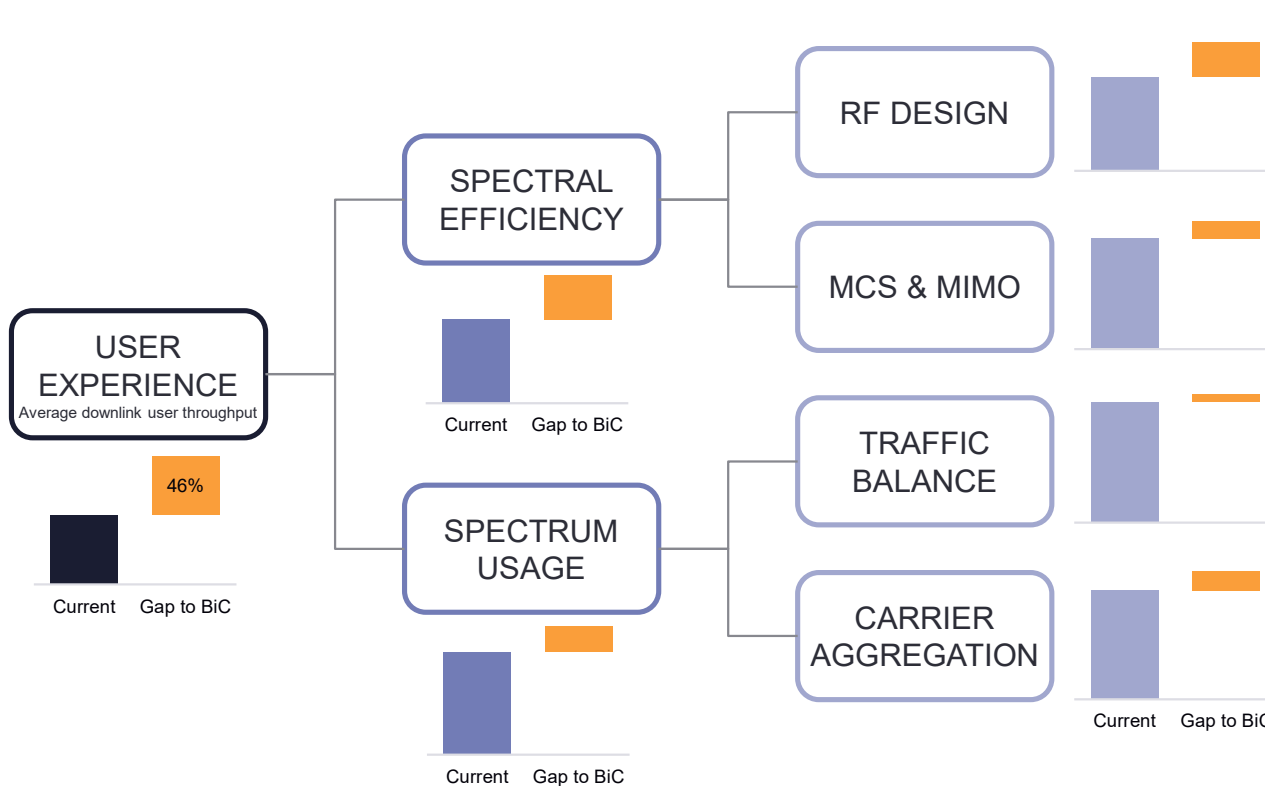


IMPROVEMENT POTENTIAL ON UNDER 10MBPS USER THROUGHPUT CASES



Analysis revealed significant upside potential for the customer

BENCHMARKING TO BEST-IN-CLASS



APPROACH:

- Existing RAN data was used, making it easy and cost efficient
- The RAN data was broken down to drivers, and benchmarked against best-in-class (BiC)
 - Same RAN manufacturer, same bands & bandwidth configuration, and similar traffic loads & terminals

FINDINGS:

- 46% gap in average downlink user throughput against best-in-class

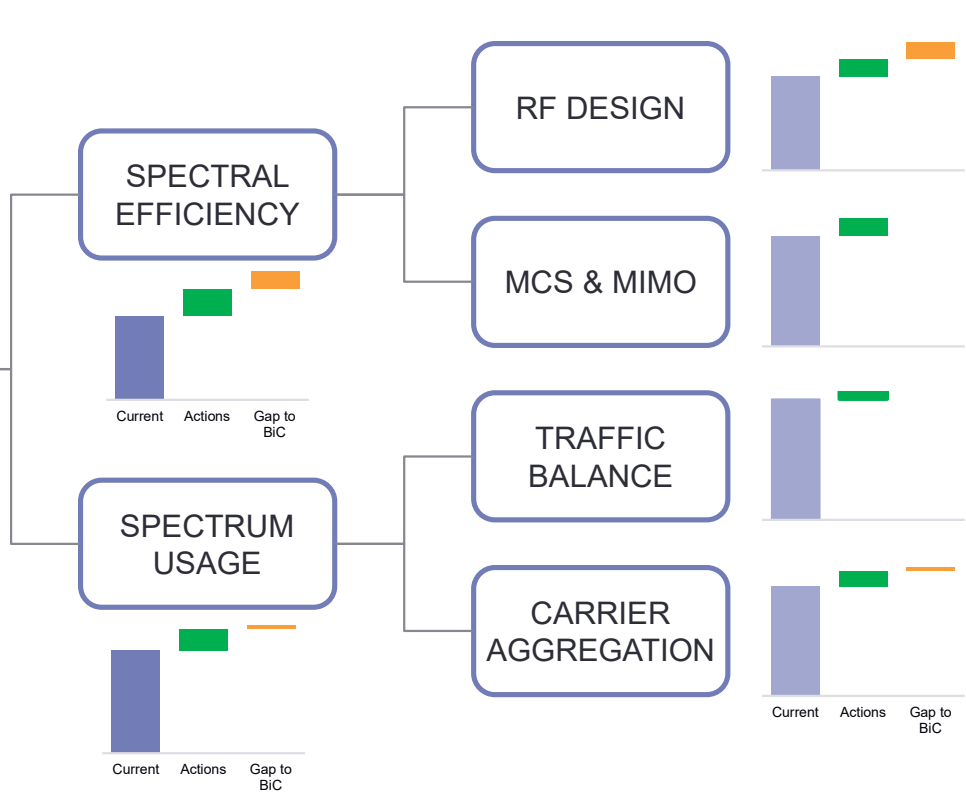
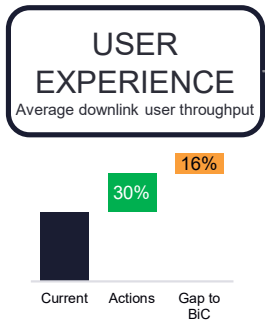
ROOT-CAUSES:

- Excessive interference in high bands due to too large cell areas
- Lower modulation usage in relation to signal quality
- Traffic excessively in low & narrow LTE bands
- Lower carrier aggregation activation despite high UE support

To capture the upside, Omnitele developed a list of improvement actions which were further prioritised based on ROI

IMPROVEMENT ACTIONS

The gap in user experience was not fully closed in order to maximise financial upside



APPROACH:

- Omnitele developed a list of improvement actions, which were prioritised based on ROI

FINDINGS:

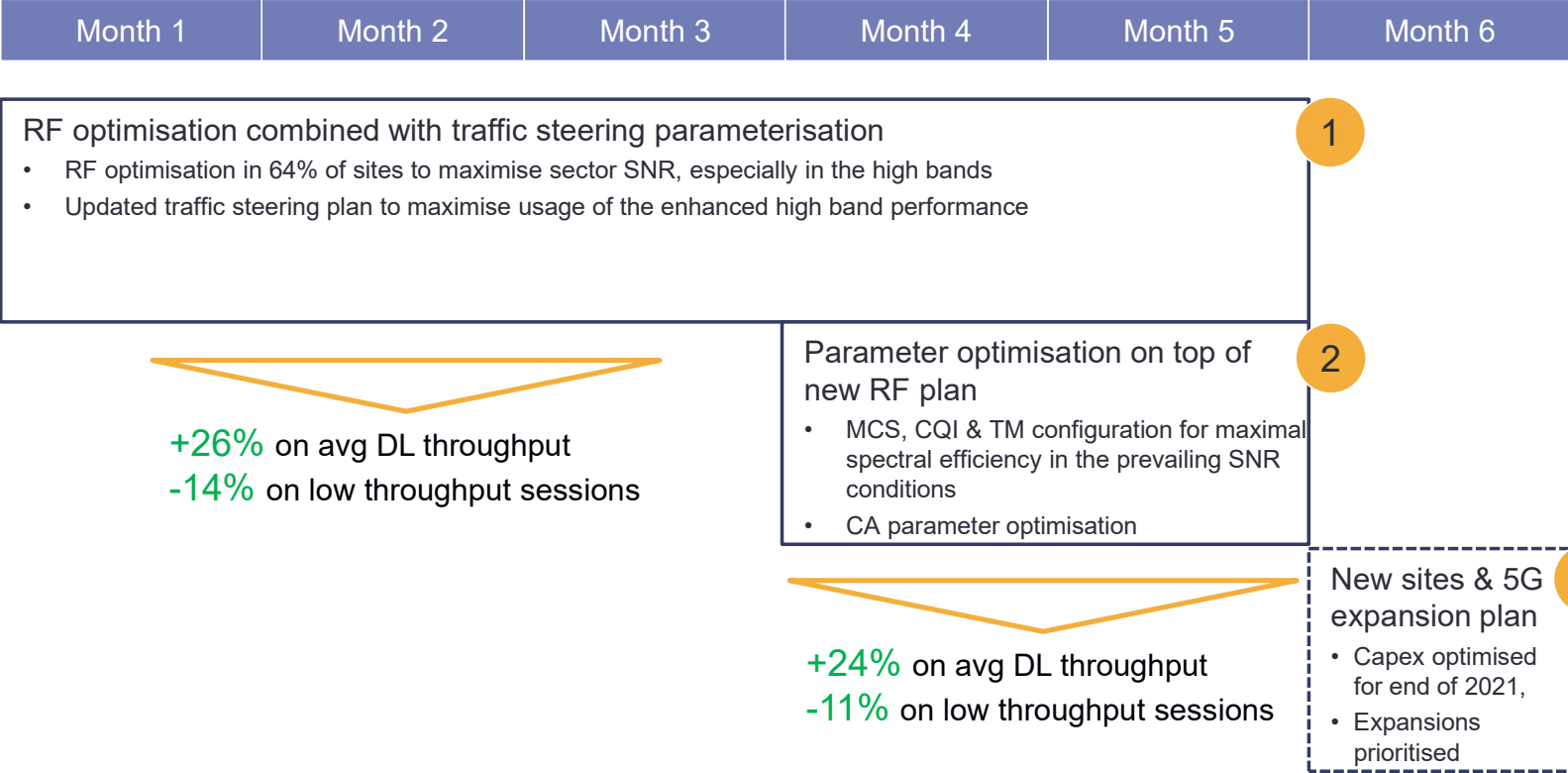
- With the improvement actions, 2/3 of the gap to the best-in-class could be closed

KEY IMPROVEMENT ACTIONS:

- RF optimisation in top 64% of sites, expecting total CQI improvement of ~7%
- CQI/TM/MCS re-parameterisation to increase 64QAM/256QAM usage by 53%
- Traffic steering parameter optimisation to move users with good SNR to high bands and users with low SNR to low bands
- CA parameters optimisation, lowering thresholds for carrier aggregation usage

All the actions were built into a 6-month implementation plan, frontloading the most impactful actions to Phase 1 to expedite benefits realisation

IMPLEMENTATION PLAN PHASES



Omnitele would like to propose similar approach to you as a first step for unlocking long-term sustainable benefits

Analytics execution

4 - 6 weeks

Implementation typically

3 - 6 months

Fully remote analysis,
using readily available
operator data

Affordable investment
level

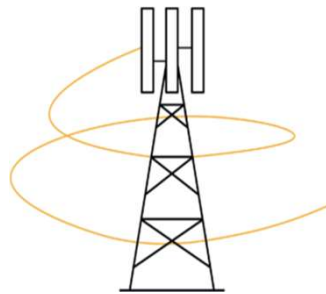


ABOUT OMNITELE

omnitele

We design mobile networks with sustainable business value

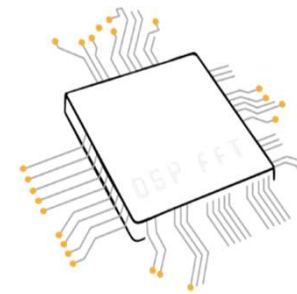
- Technology consulting
- Network services
- Automated solutions
- Managed services
- Game changers



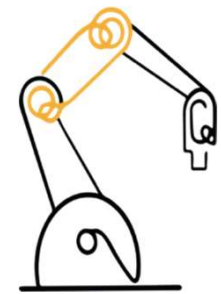
OPERATORS



REGULATORS



NETWORK VENDORS



NETWORK OWNERS



30+ years in business

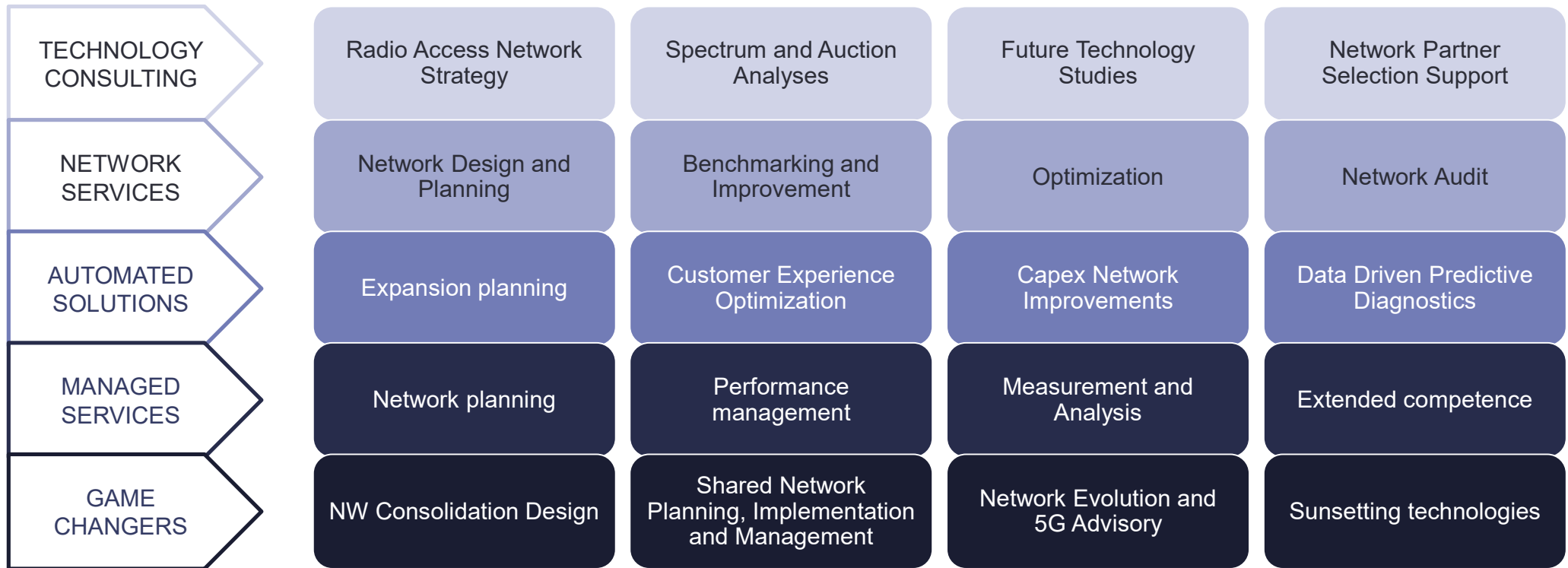
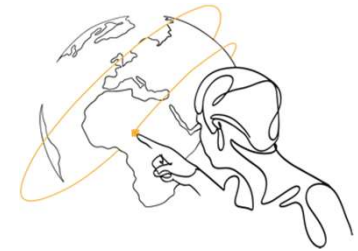
100+ countries

1000+ projects

NPS score of 90%+



We design mobile networks with sustainable business value



WE ANSWER



omnitele

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