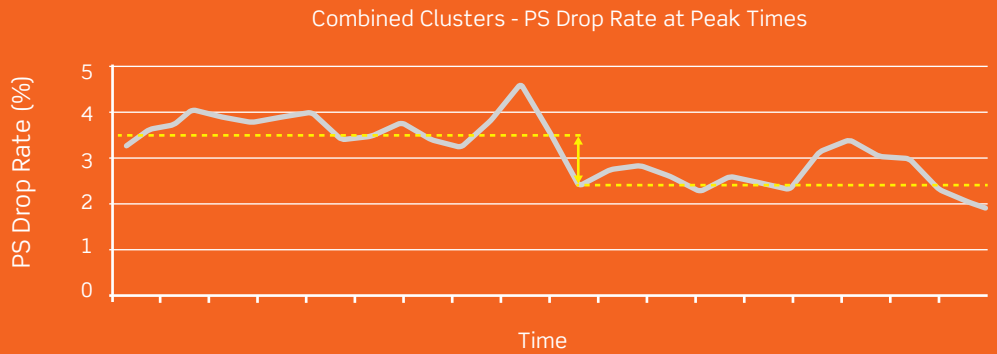


## RAN Audit and Optimisation - Results and Impact

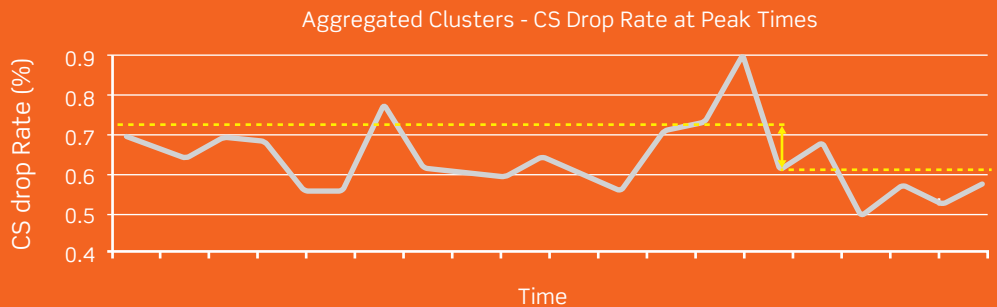
### PS DROP RATE IMPROVEMENT

This KPI Graph corresponds to aggregated statistics for 2 clusters. (approximately 15 sites)



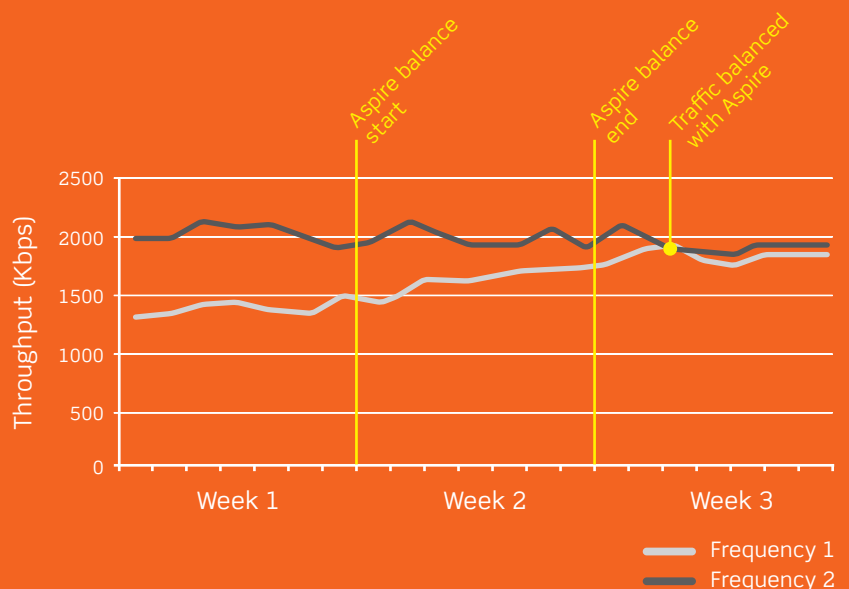
### CS DROP RATE IMPROVEMENT

This KPI Graph corresponds to aggregated statistics for 6 clusters. (approximately 80 sites)



### TRAFFIC BALANCING

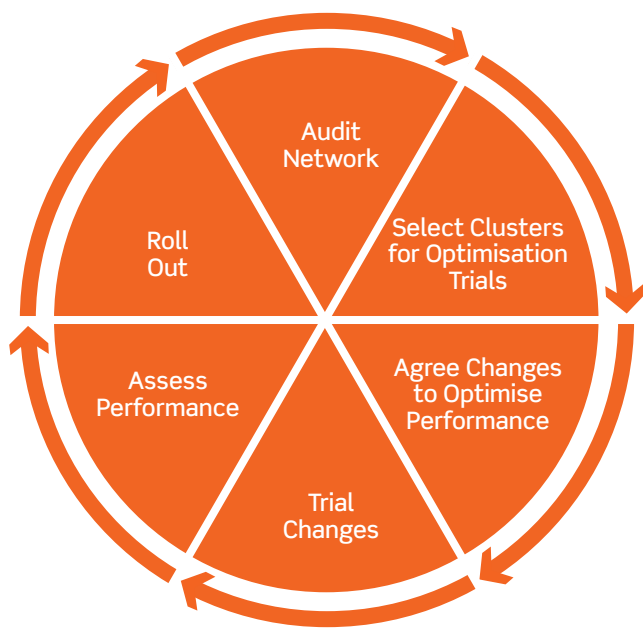
This KPI graph for traffic balancing shows results on RNC level for one of the optimised RNCs, pre and post traffic balancing changes.



# How Aspire helped a major Operator in the Americas with optimisation of their Radio Network

Aspire were called upon to carry out a RAN Audit and Optimisation project for a Tier 1 Operator in the Americas. The approach to the project was an initial network audit phase, followed by a subsequent optimisation phase.

## Approach



## Results

- ▶ Optimised QoE achieved through Traffic Balancing
- ▶ Improved PS Drop Rates by 20%+
- ▶ Improved CS Drop Rates by 15%+
- ▶ Operator saw great value in the integrated workflows between the customer and consultant teams during the engagement period of the project

## Deliverables

### AUDIT PHASE

- ▶ Key areas of sub-optimal performance were identified in the RAN
- ▶ Areas of improvement were prioritised:
  - Drop rate, Traffic Balancing, and Network Parameter Inconsistencies

### OPTIMISATION PHASE

- ▶ Deep dive analysis and troubleshooting were carried out in these areas
- ▶ Network snapshot of performance settings; key drivers for improvement were identified
- ▶ Recommendations were subsequently made:
  - Re-design of RAN traffic steering
  - Optimisation of the RAN through parameter tuning
  - Alignment of Network configuration parameters
  - Resolving missing neighbour relations and primary scrambling code conflicts
  - Trial, assess and rollout of changes

IMPROVEMENTS  
PS DROP RATES

↑ 20%

IMPROVEMENTS  
CS DROP RATES

↑ 15%

The success of this Audit and Optimisation project has led to a pipeline of ongoing and upcoming projects based on Aspire's strategic recommendations.