



SPEC

RAPID PAYLOAD OPTIMIZATION, BEAM LAYDOWN, & ANALYSIS TOOL

SATELLITE PAYLOAD EVALUATOR & COMPARATOR (SPEC)

- ✓ Rapid payload optimization – bandwidth, frequency, channels, power, beams
- ✓ Flexible ability to generate complex demand scenarios
- ✓ Extensive visualizations for analysis and comparison
- ✓ Exportable results for more detailed analysis

PAYLOAD RESOURCE OPTIMIZATION

BEAM OPTIMIZATION

PAYLOAD PERFORMANCE EVALUATION

PAYLOAD PERFORMANCE COMPARISON

SATELLITE PROCUREMENT EVALUATION

USER DEMAND SCENARIO ANALYSIS

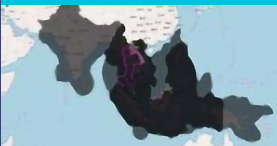
SALES OPPORTUNITY ANALYSIS

INTERFERENCE ANALYSIS

WHAT-IF MODELING AND SIMULATION

INTUITIVE, EASY-TO-USE VISUALIZATIONS

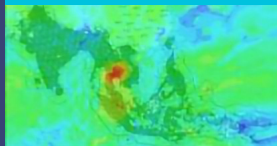
USER DEMAND



BEAM ANALYSIS



HEAT MAPS



BEAM LAYDOWN



BEAM OPTIMIZATION



SPEC PRODUCES OPTIMIZED RESULTS IN SECONDS!

- ✓ Quickly optimize satellite payload design to meet complex demand scenarios and evaluate performance
- ✓ Optimize using key mission constraint parameters across the Space, Ground, and Terminal segments
- ✓ Effectively compare results from competing payload design approaches
- ✓ Iterate your decision analysis with comprehensive what-if scenarios
- ✓ Immediately visualize expected beam laydown, capacity utilization, and optimized performance
- ✓ Detailed performance metrics at the region, beam, and terminal level
- ✓ Export all metrics for further offline analysis
- ✓ Identify opportunities to sell additional capacity and drive increased revenue
- ✓ Inform future planning and real-time operations
- ✓ Validate OEM flexible payload designs during the satellite acquisition process
- ✓ Full satellite lifecycle support, from initial acquisition to ongoing operational planning
- ✓ Fully customizable to your payload and needs