MENTOR

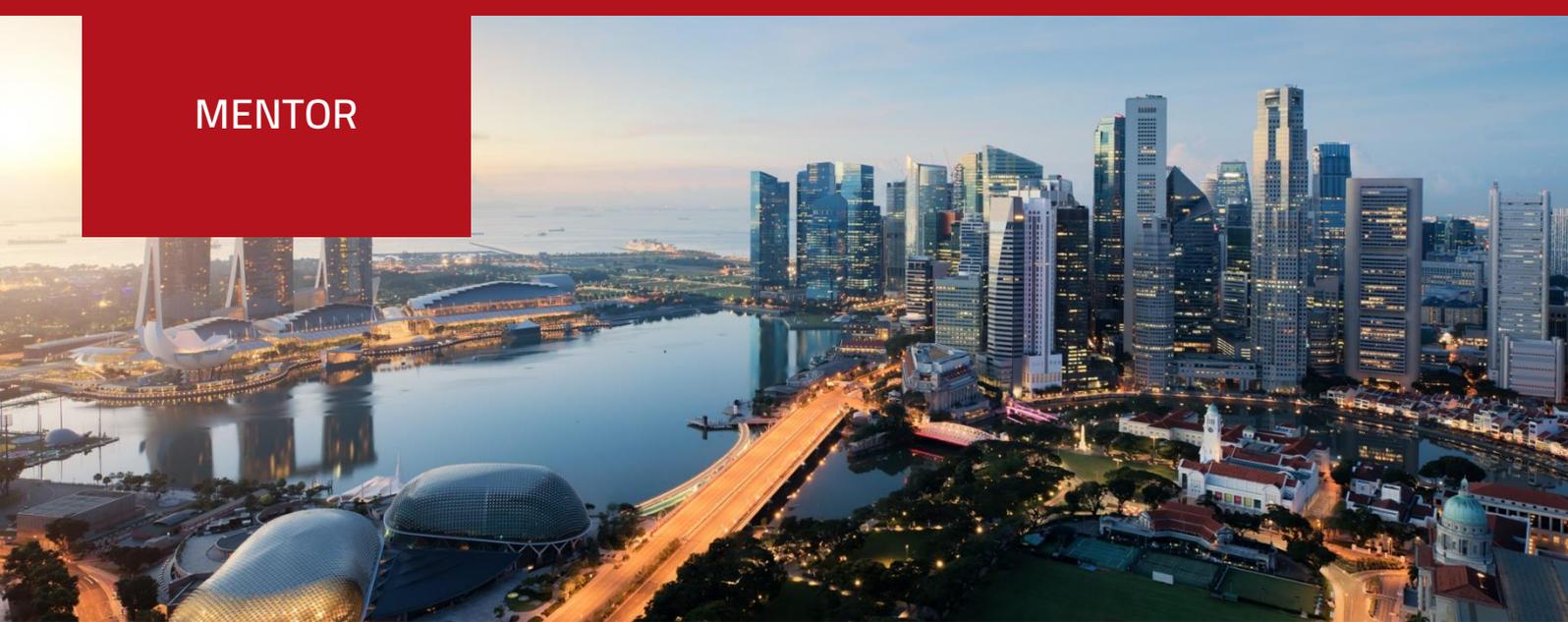## RAN Optimization and Analytics

Mentor is a multi-technology RAN optimization and analytics solution leveraging network measurements and geolocation algorithms to deliver advanced network optimization, troubleshooting and subscriber experience analysis across 2G, 3G, 4G and 5G networks.

With multiple technologies, vendors and layers within a mobile network, engineers need an end-to-end solution that can optimize both the network and the subscriber experience. Mentor monitors, analyzes, and optimizes RAN performance. It also troubleshoots performance issues and provides carriers with a view of the subscriber experience. All thanks to its powerful network measurement-based optimization engine.

Extensive analytics capabilities provide insights across devices, subscribers, and locations; underpinned by our geolocation engine, which delivers market-leading accuracy by leveraging innovative positioning techniques based on topographical maps, including transportation and building data.

When it comes to subscriber analysis, Mentor is fully GDPR compliant, with built-in functionality for securely protecting the privacy of your subscribers.

Optimize your network

GEOLOCATED COVERAGE MAPS
Understand indoor/outdoor, coverage, throughput, problems in network deployments

CLASSIFICATION OF TRAFFIC
Where is the most important traffic? Where are issues observed?

VIRTUAL DRIVE TESTS
Reduce drive tests costs, measure real-life subscriber experience, 50% OPEX saving

MAXIMIZE THROUGHPUT
Maximize CAPEX effectiveness, analysis and optimization to maximize throughput

GEOLOCATION AND OPTIMIZATION

Using geolocated call data, Mentor delivers a comprehensive set of advanced RAN optimization insights to engineers. Capabilities include MIMO and carrier aggregation analysis, load balancing, RSI optimization, VoLTE SRVCC optimization, scrambling code / PCI conflict resolution, neighbor list optimization, antenna parameter optimization (power, tilt and over/undershooting analysis), paging area optimization and swapped sector analysis and more. Optimization workflows are wizard driven and provide current/optimized plan analysis. Many of Mentor's optimization capabilities are complimentary to SON systems covering areas not addressed within the SON ecosystem.

MONITORING AND TROUBLESHOOTING

To compliment the optimization capabilities, Mentor provides a number of dashboards for network and subscriber (incl. VIP) experience monitoring and the ability to drill into them for troubleshooting. The dashboards cover key areas such as mobility, device performance, call faults, KPI's, parameter configuration, system health, subscriber analytics and alarms.

ADVANCED CAPABILITIES

Automatic Problem Detection enables automatic detection of geographical polygons with problems using rules made up of a combination of cell KPIs and geolocated information. The detected problems are assigned a severity level to enable the engineers to focus on the most severe service-affecting cases first. Ad-hoc filtering for map queries enables engineers to customize maps on the fly to show the most pertinent information to their investigation. Hadoop delivers the scalability and application performance required to support the largest and most complex networks. An event streamer allows streaming of RAN CTR events to an external system.

TEOCO is a leading provider of analytics, assurance & optimization solutions to over 300 communication service providers (CSPs) and OEMs worldwide.

Our solutions enable the digital transformation of CSPs while enhancing their network QoS, improving their customer experience and reducing their operational costs.

Through advanced analytics, TEOCO products provide actionable and measurable insights into network and customer behavior. This includes the optimization, effective monetization, and delivery of new and existing services, such as 5G.

Our commitment to network flexibility and agility makes TEOCO the obvious choice for CSPs looking to maximize the revenue potential of 5G investments and capitalize on new opportunities tied to the emerging Internet of Things (IoT).

Global Footprint   **Extensive Portfolio**   **Proven Solutions**

"TEOCO's market leading position in Engineering Systems reflects the success of its extensive network planning and optimization solution set, built by some very cohesive acquisitions and integrated effectively to form a leading portfolio"

- Analysys Mason