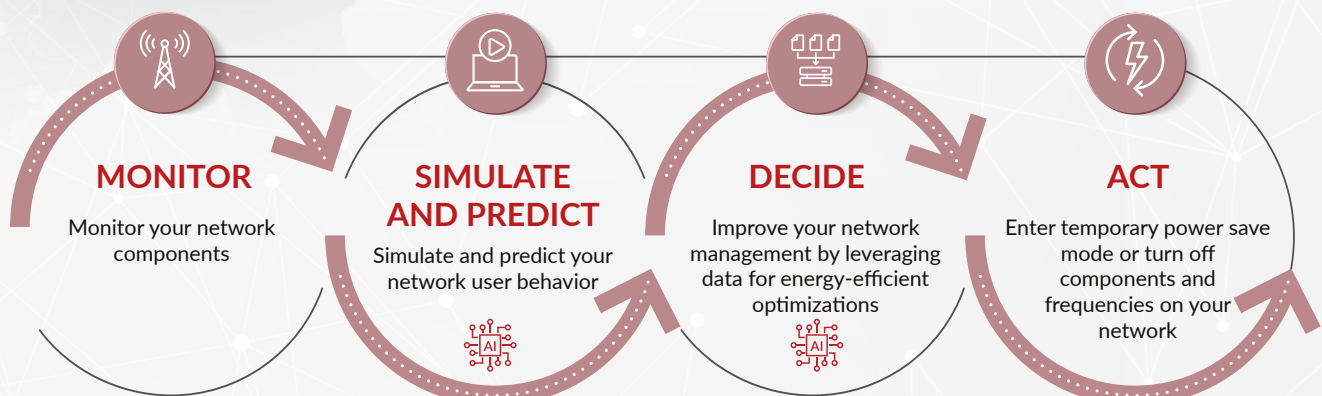# UNIBERG

Creating the Future of Connectivity

UB-SMART

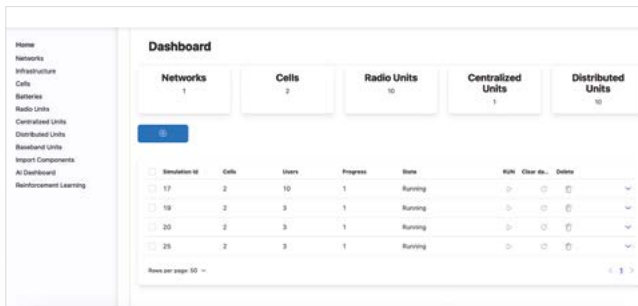### Digital Twin for Carrier Grade Mobile Networks

- ✓ AI for Smart Energy Management
- ✓ AI Prediction of Network and Energy Usage
- ✓ Large Scale Network Monitoring
- ✓ Simulation of RAN and User Behavior
- ✓ Multi-vendor and O-RAN Support

UB-SMART revolutionizes mobile network management with its AI-driven system, offering scalable, multi-vendor monitoring. It predicts network user behavior and energy consumption, enabling data-driven, energy-saving decisions. Its capabilities extend to conducting scalable simulations, from local networks to nationwide coverage. Powered by a sophisticated reinforcement learning AI framework, UB-SMART ensures efficient, closed-loop operations.
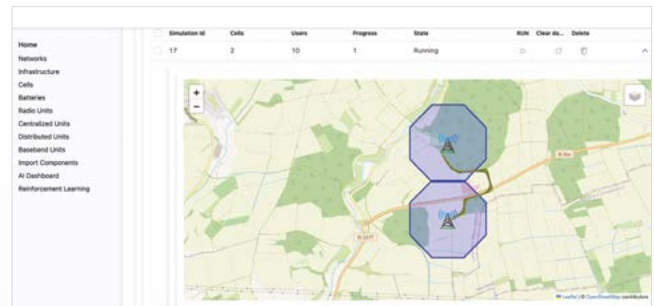
Digital Twin for your enhanced Network Management

MONITOR

Monitor your network components

SIMULATE AND PREDICT

Simulate and predict your network user behavior

DECIDE

Improve your network management by leveraging data for energy-efficient optimizations

ACT

Enter temporary power save mode or turn off components and frequencies on your network

UB-SMART's User Interface at a glance

Intuitive management

Comprehensive visualization and insights of your network

Your Key Benefits

Enhance your network's transparency

Collect data from your mobile network across multiple domains, such as RAN and Core. Highly scalable data pipelines and storage with normalized data models enable a unified view.

Safe optimization testing through advanced simulation

Simulate user behavior with precision, leveraging population data, time, and occupation to estimate RAN usage. Our simulations are highly configurable, tailored to mirror your network closely, ensuring safe and effective optimization testing.

Unlock new insights into your network

Transform collected and simulated data into clarity with our custom-tailored dashboards. Gain a comprehensive and unified view of your network, enriched with deep insights.

Look into the future of your network

Discover the future of your network's utilization and energy consumption with predictions driven by collected and simulated data. Our platform employs a variety of AI algorithms, competing to deliver the most accurate forecasts, allowing you to plan with precision and efficiency.

Optimize your network with AI

Our reinforcement learning framework, used for both training and testing, enables intelligent control of your base stations, effectively reducing energy consumption. Additionally, effortlessly create new models on the fly, keeping your network at the forefront of innovation.