

VIAVI Solutions Company Overview

Kyusoo Kim
Speaker Title
Date

About VIAVI Solutions

VIAVI Solutions (NASDAQ: VIAV) is a global leader in communications test and measurement and optical technologies.



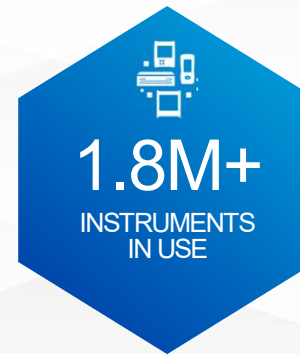
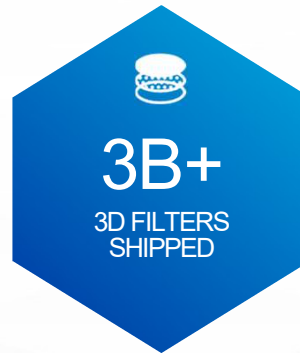
NETWORK & SERVICE ENABLEMENT

Our industry-leading solutions power tomorrow's network transformation – from fiber expansion and the wireless evolution to AI-powered zero-touch networks and cloud transformation that accelerate digitalization.

OPTICAL SECURITY & PERFORMANCE

We alter how light is transmitted, reflected, absorbed and shaped for mission-critical and high-volume optical applications ranging from anti-counterfeiting, consumer electronics and aerospace to industrial and automotive.

VIAVI Solutions by the Numbers



VIAVI Market Leadership

For Complex Network and Sensing Issues

#1 TEST AND MEASUREMENT



Fiber



Enterprise



Cable and
Access



Metro and
Transport



Lab Production
and Manufacturing

#1 WIRELESS AND AVIONICS



5G Test and
Assurance



Location
Intelligence



Land-Mobile and
Military Radio



Aerospace, Nav/Comm,
and Transponder

#1 SECURITY, SENSING, AND AUTHENTICATION



3D Sensing



Anti-Counterfeiting



Spectral
Sensing



Automotive



Government
and Aerospace

VIAVI Technology Growth Areas

Keeping Pace with Market Drivers and Customer Demand



FIBER

- Industrial IoT
- FTTx
- Hyperscale Data Centers
- High Speed Internet
- Photonic Computing



5G – 6G NETWORKS

- RAN-to-Core Lab Solutions
- NTN
- Enterprise Networks / P5G
- Service Assurance / AIOps
- NITRO / Analytics
- V2X / Smart Transportation
- Industry 4.0



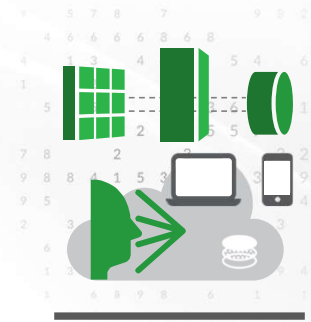
AI / ML AUTOMATION

- Network Automation / Optimization
- AIOps
- Field Ops Service Bots
- Digital Twin
- AI Testing AI



CLOUD

- Cloud Native
- Cloud-Out to Edge
- Everything as a Service (LaaS, TaaS, SaaS)
- Autonomous Networks
- Intent-Based Instruments



3D SENSING

- Consumer Electronics
- Automotive
- Industrial
- Custom Optics



VIAVI O-RAN Market Leadership

NTIA Notice of Funding Opportunity - Recap

Overview:

- The Innovation Fund is a **ten-year, \$1.5 billion grant program, advancing open wireless network technologies**. Today's wireless equipment market is concentrated. Some of the leading suppliers pose security risks. Open solutions can revitalize this ecosystem. The Innovation Fund, funded through the CHIPS and Science Act of 2022, will make major wireless investments, as part of the Biden-Harris Administration's "Investing in America" agenda.

The Innovation Fund will:

- **Promote** 5G+ technologies that are secure, open, and virtualized.
- **Advance** the deployment of open and interoperable equipment.
- **Support** the integration of networks with multiple brands of equipment.
- **Identify** criteria to decide if equipment follows open standards.

NOFO #1:

- Value of **\$140M**
- The first Notice of Funding Opportunity (NOFO #1) had two focus areas:
 - SRFA #1: Research and Development (R&D), and
 - SRFA #2: Testing and Evaluation (T&E).

NOFO #2:

- [This Notice of Funding Opportunity \(NOFO\) \(\\$450M\)](#) is the second in a series that the National Telecommunications and Information Administration (NTIA) will issue and administer under the Innovation Fund. This NOFO is divided into two (2) specific research focus areas (SRFAs):
 - **SRFA 1: – Open Radio Unit (RU) Commercialization:** Projects funded under SRFA 1 will focus on accelerating the development of open RU products to the point where they meet carrier needs and are ready for commercial trials; and
 - **SRFA 2: – Open RU Innovation:** Projects funded under SRFA will focus on improving the overall performance and capabilities of open RUs through targeted research and development.

\$21.7M NTIA Funding for VIAVI VALOR™ in Chandler

VIAVI Automated Lab-as-a-Service for Open RAN (VALOR)

FIRST to market Digital Twin Testing to expand O-RAN testbed



Lab-as-a-Service (LaaS) & Testing-as-a-Service (TaaS) for O-RAN with Digital Twin technology

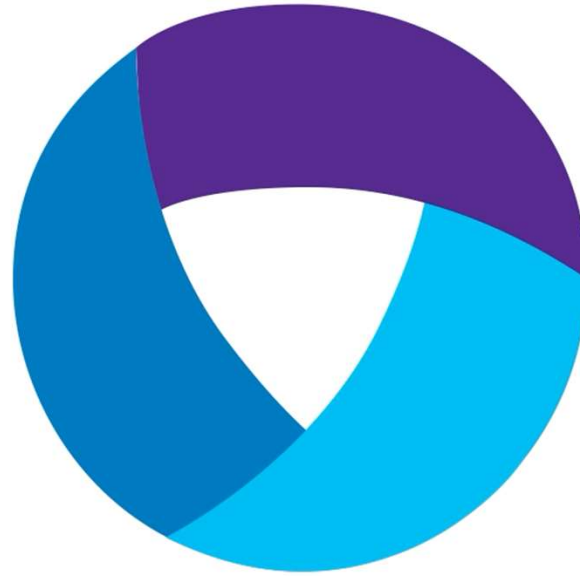


Addresses two major Open RAN testing gaps with affordable, accessible pay-as-you-go subsidized fee structure:

- Pre-certification, pre-badge development and system verification with ongoing testing
- Pre-deployment realistic and commercial grade performance testing



Services: Conformance, Performance, Scale, IoT, E2E, Security from cloud-based environments for preliminary testing to extensive multi-cell load-and stress testing for O-RAN components



VALORTM

VIAVI Automated Lab-as-a-Service for Open RAN



VIAVI & 6G



VIAVI 6G/AI/Digital Twin Demos in MWC25

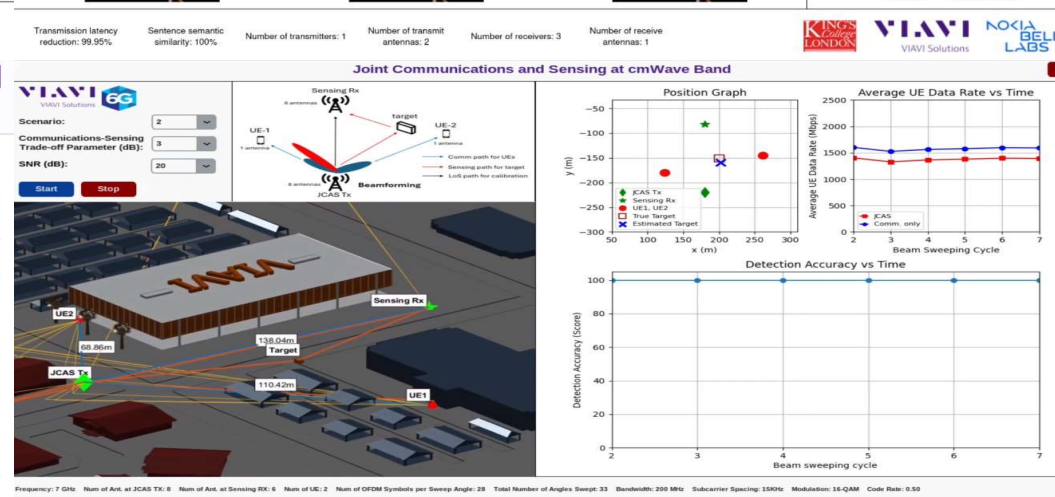
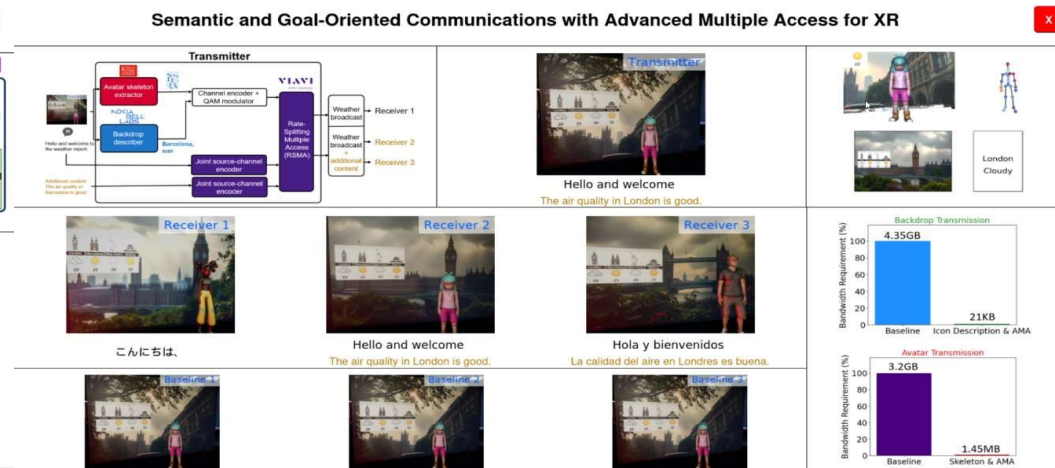
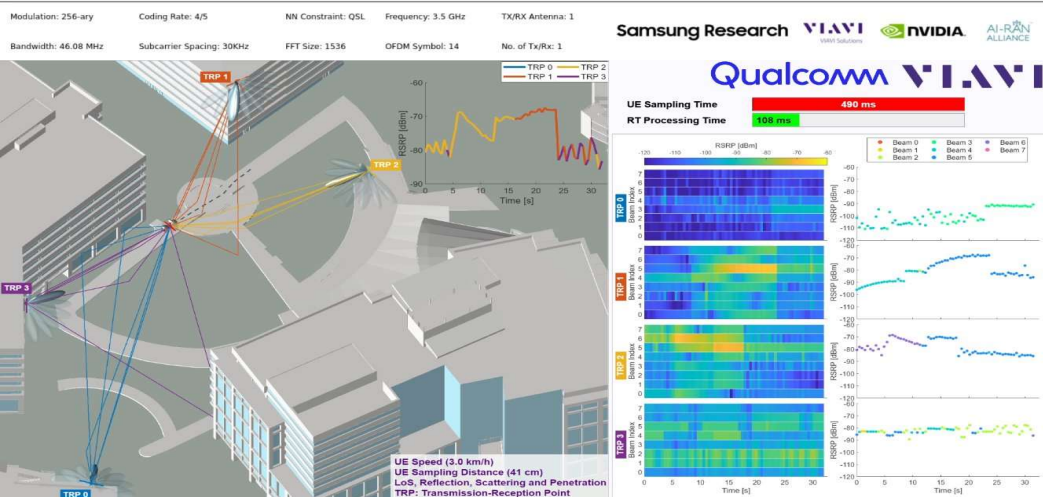
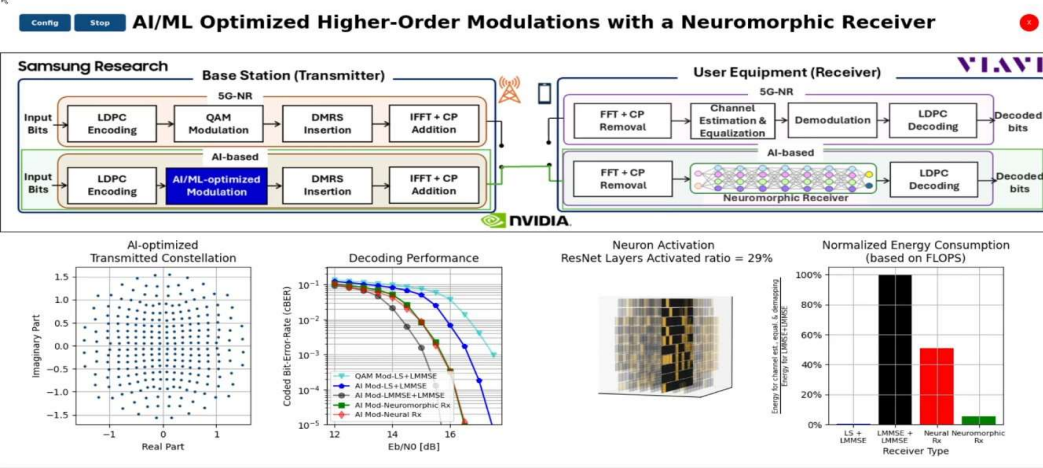
- ❑ AI/ML Optimized Higher-Order Modulations with a **Neuromorphic Receiver**
- ❑ Goal-Oriented and **Semantic Communications** with Advanced Multiple Access for XR
- ❑ **Real-time Raytracing** empowered
Augmented Perception: Sensing-enhanced Communications at Scale
- ❑ Networking Digital Twin Testing Solutions on **Joint Communications and Sensing**
- ❑ **AI testing AI solutions**
- ❑ 6G Position Enhanced AI/ML-based **Beam Management** for FR3 cmWave

VIAVI Marconi Labs

Mobile World Congress, Barcelona
3-6 March 2025



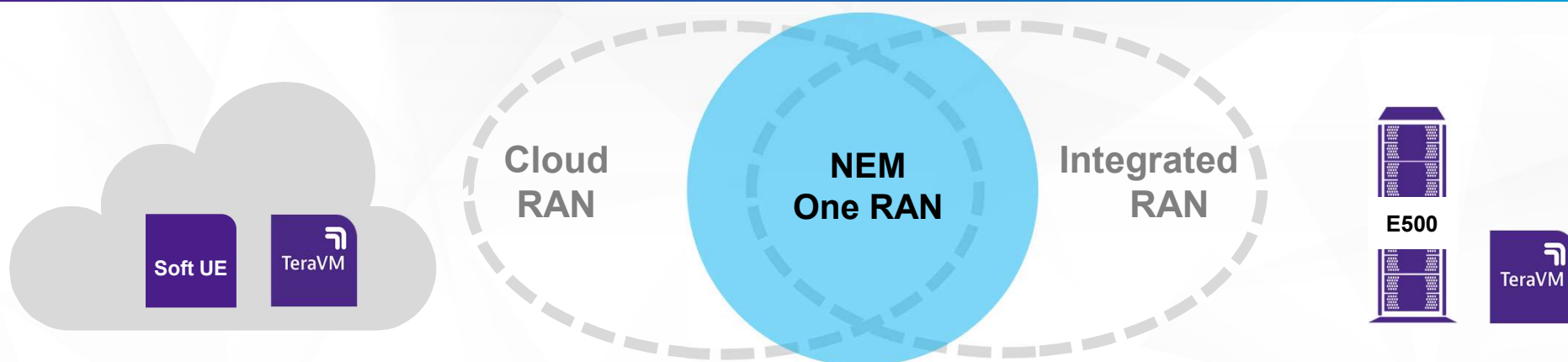
VIAVI 6G Demo GUI



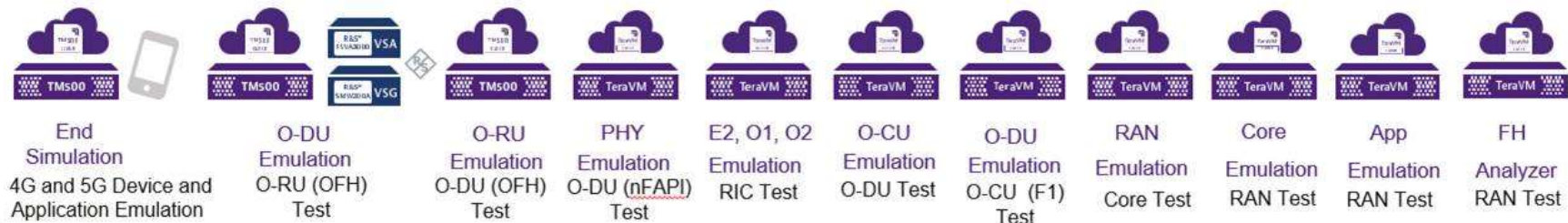


AI-based 5G Beamforming for Mobility-Aware Interference Mitigation and Power Saving

VIAVI can address all RANtoCore Validation needs



Complete set of Base Station and Core Network Test Solutions & Services for 4G/5G, Open RAN and Cloud Networks

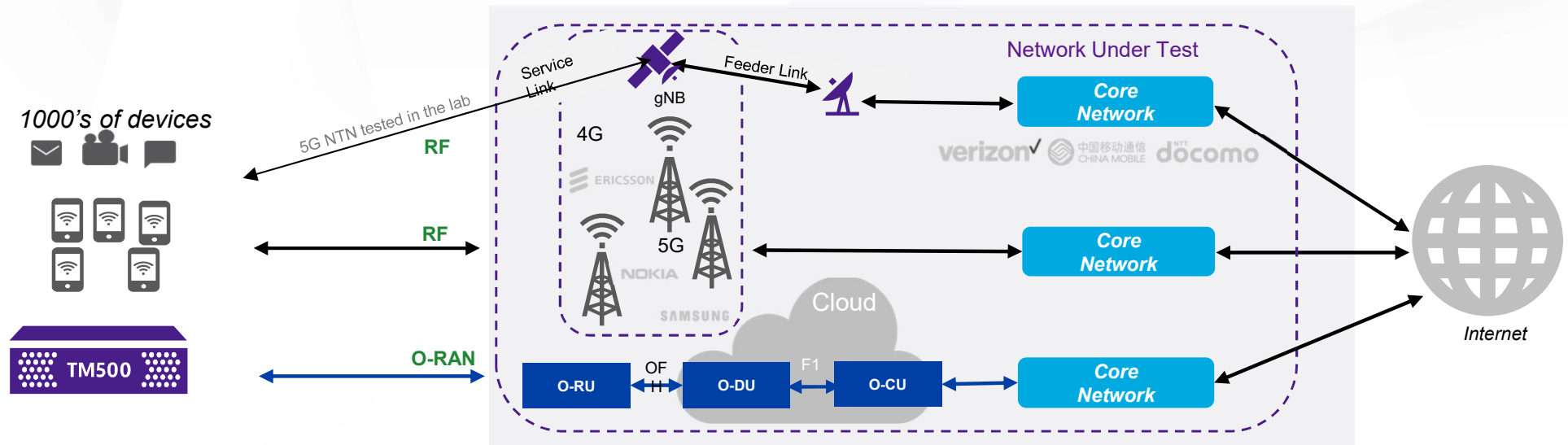


Flexible deployment via Server hardware or cloud-native platforms, (TaaS, SaaS, LaaS, Security)

at the lowest risk & cost of test through digitization & shift left software solutions

Diversity of TM500 family – how it is used

Comprehensive E2E validation of 4/4.5 & 5G, Private 5G, NTN, Cloud, O-RAN networks



Functional Test

Do basic communication protocols and interfaces work as per the specifications



Application Emulation

Does the network work E2E when real data applications (RDA) are added (e.g. voice, video)



Capacity Test

When the network is stressed with 1000's of UE's with RDA, does it work as expected?



Performance Optimization

Are the maximum data rates, latency and QoS targets achieved? Where are the bottle necks?



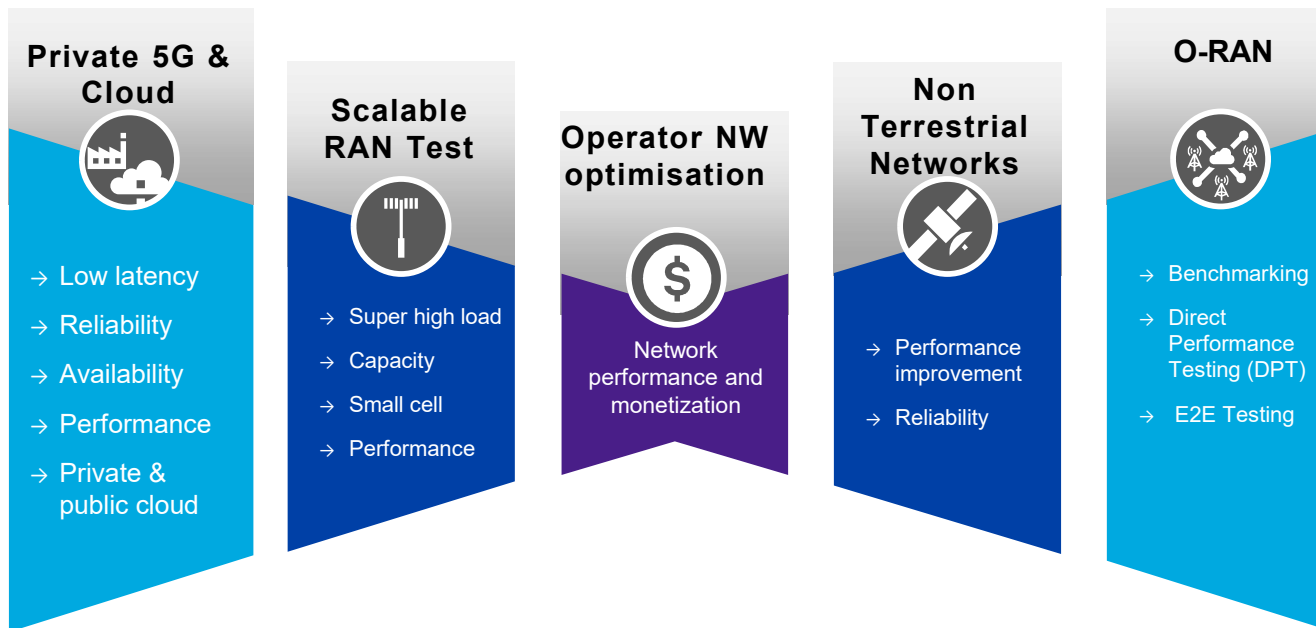
Regression Test

Is the network stable from end-to-end? Are the results repeatable?

TM500 - Network Testing for 20 years, world's first 3G Test System

TM500 family

Any Network, Multiple Verticals, Common Software



Network Test Leadership

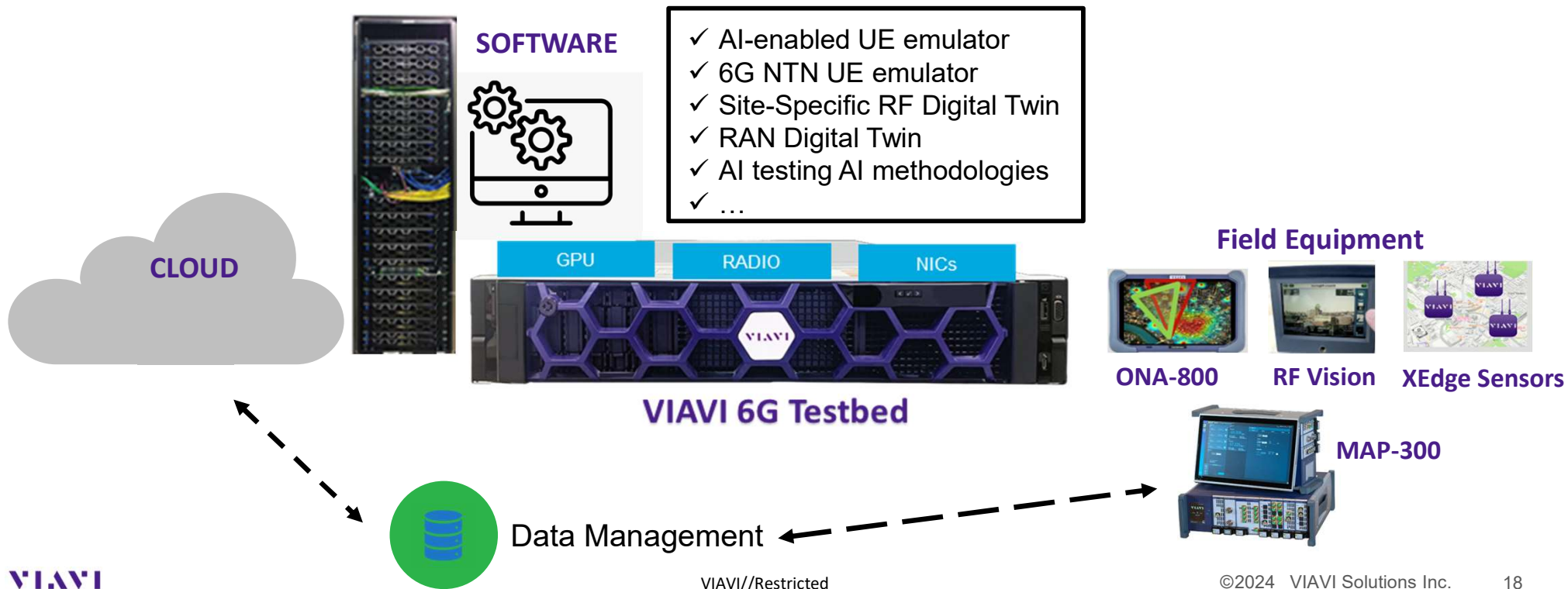
#1 world wide for RANtoCore Test
install base across all major NEMs

TM500 family values

- **Established SW quality and stability**
- **Flexibility serves multiple industry verticals**
- **Performance without compromise**

6G Testbed

- Support Research and development of new/evolved technologies for 6G
- Enable smooth migration from existing 5G to 6G
- Provide efficient and effective AI testing solutions



VIAVI//Restricted



VIAVI Solutions

viavisolutions.com