AsiaInfo 亚信科技

Industry-First Agent-Based O-RAN Apps

Example: RAN Mobility Agent xApp

Private 5G for Wind Farms

Turbine rotation causes signal interruption :

- Channel Fluctuation
- Ping-Pang Handover
- Service Drop
- ...

Mobility Agent xApp

MCP

E2 Adaptor

Near-RT RIC

Network Capability

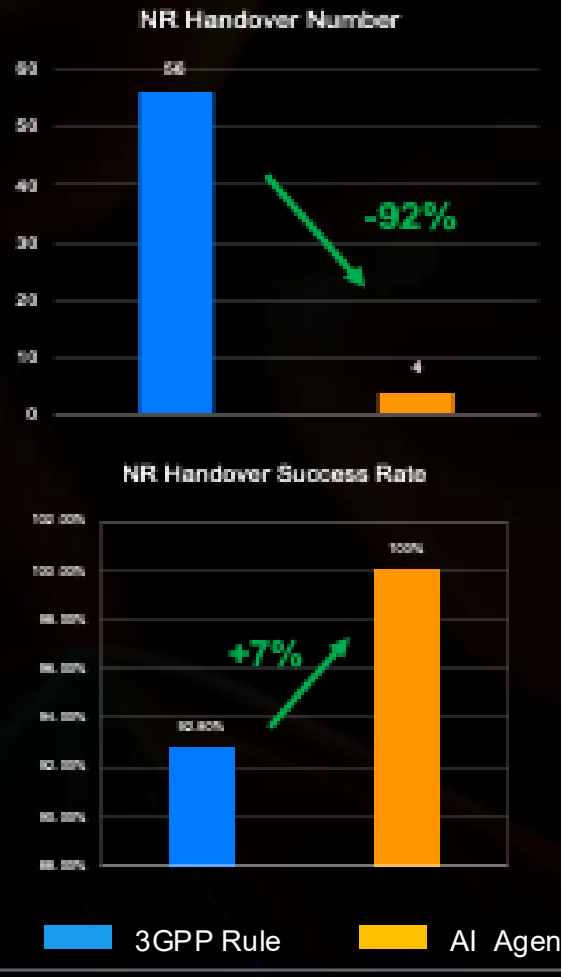
E2

O-CU

O-DU

ISAC² BBU

ISAC²: Integrated Sensing, AI, Communication and Computing



Meet us at Booth 1E60, Hall 1

MWC26

1Finity advancing Open RAN innovation with Tier 1 MNOs

Find out more:

Booth 2G60, Hall 2

1FINITY
a Fujitsu company

VVDN® TECHNOLOGIES:Achievements in O-RAN 5G RIC Implementation

3rd Party xApp

Successful deployment and integration of third-party applications.

Energy-saving xApp

Innovative end-to-end application reduces energy consumption efficiently.

Traffic Steering

Efficient integration and deployment for optimized traffic management.

Scaling System

Our system scales to accommodate hundreds of RAN devices.

Integration with SMO

Smooth integration enhances system management and efficiency.

SOLiD's Integrated O-RAN Solutions

Field-proven platforms for commercial deployments

O-RU

- O-RAN WG4 CUS/M-plane compliant
- 4G LTE, 5G NR sub-6 GHz
- 4T4R or 8T8R based radio units
- Single band, dual band, triple band, quad band
- A wide range of output from low power to high power

Low-power O-RU

High-power O-RU

Medium-power O-RU

FHM

- O-RAN WG4 CUS/M-plane compliant
- Full O-RAN shared-cell network: Copy and combine
- 4G LTE, 5G NR sub-6GHz
- nFHMo: 14 x O-RU interface
- FHMc: 7 x O-RU interface
- For nFHMo, supports up to 4 cell group configurations
- 19-inch rack mountable, 1U

nFHMo (Optic version)

FHMc (Copper version)

DASource® nDIU

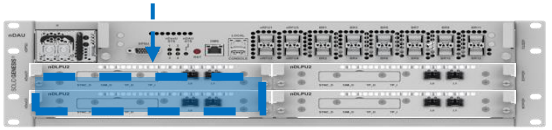
- O-RAN WG4 CUS/M-plane compliant
- 4G LTE, 5G NR sub-6GHz
- 4T4R capability, RF interface toward DAS
  - Quad band: 4G 4 bands SISO
  - Triple band: 5G 1 band 2x2 MIMO + 4G 2 bands SISO
  - Dual band: 4G/5G 2 bands 2x2 MIMO
  - Single band: 5G 1 band 4x4 MIMO
- Simplex/Duplex port
- 19-inch rack mountable, 1U

DASource® nDIU

SOLiD GENESIS® nDLPU

- O-RAN WG4 CUS/M-plane compliant
- Embedded Modular type for nDAU
- 4G LTE or 5G NR
- Any carrier specified in 3GPP TS in FR1
- Up to 16 component carriers
- Low-PHY processing
- 2x 10G/25G optic interface for CU/DU

nDLPU Card



nDAU

RIMEDO LABS

i14y LAB

O-RAN ALLIANCE

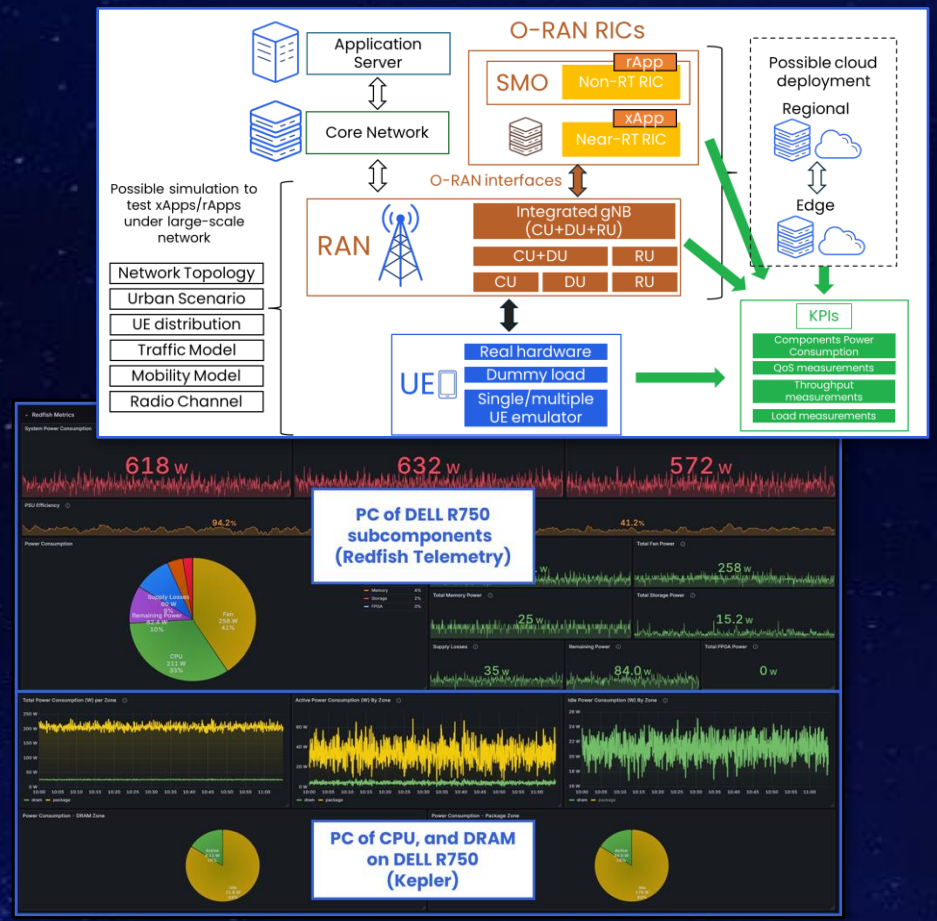
O-RAN E2E Energy Efficiency **Testing Framework**

Rimedo Labs and i14ylab work together on a **unified O-RAN E2E EE Testing Framework**

Common procedures to evaluate E2E EE of the **O-RAN network components stack**

Measurements of **virtualized environment** components using **Redfish and Kepler**

Joint contributions to the **O-RAN ALLIANCE SuFG** working documents



All things wireless •

rimedolabs.com

Hall 5, 5H28

Artiza Networks

5G O-RAN gNB Tester

DuoSIM 5G

* DuoSIM-5G is a system product composed of the above hardware along with other server appliances.

- Uncovers hidden performance issues through unmatched scalability
- Optimizes AI/RIC and validates energy-efficiency
- Validates 64T64R, 32-User MU-MIMO
- Replicates field conditions in the lab to guarantee smooth deployments

Fronthaul Monitor

FH MONITOR

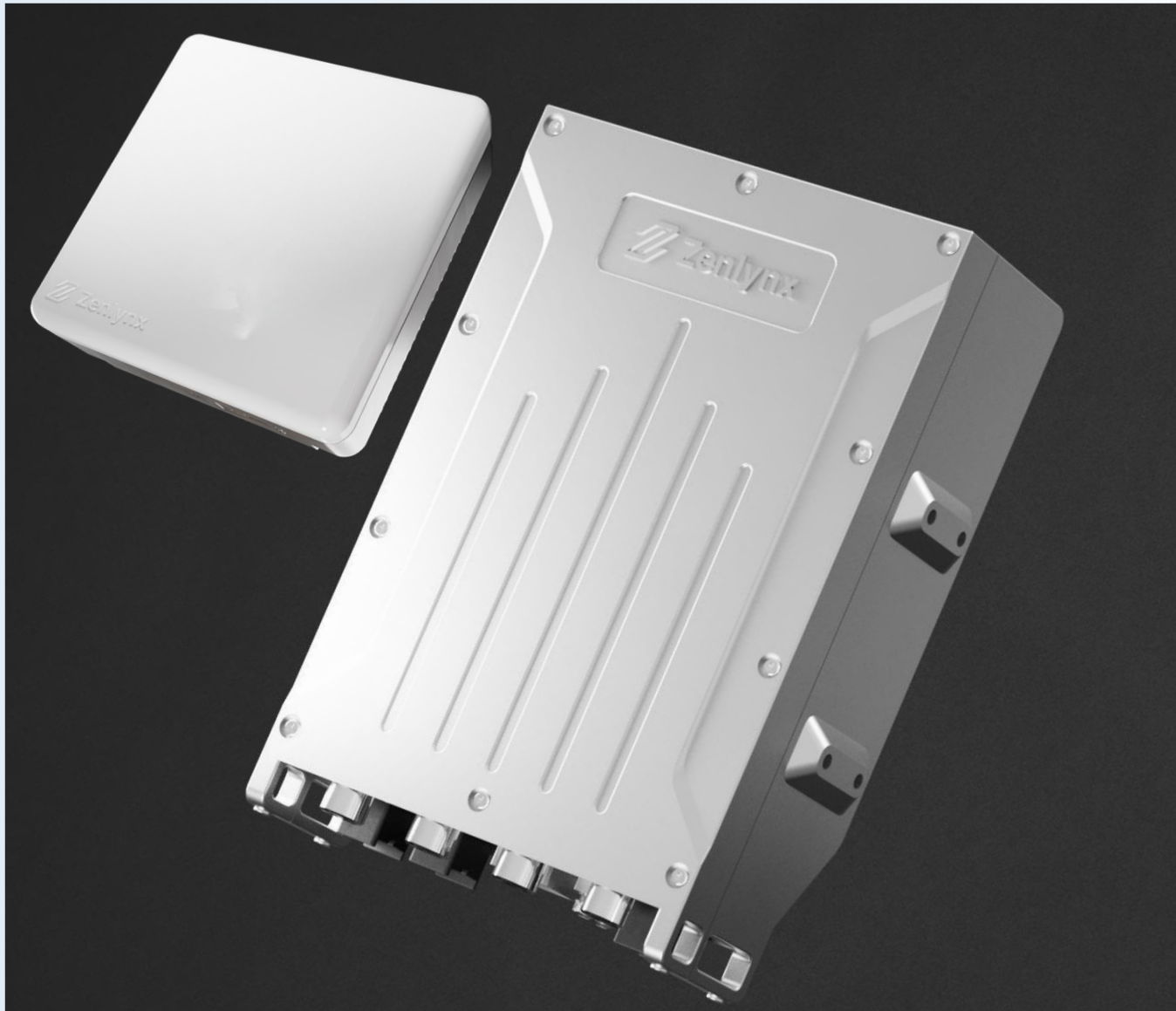
- Automates and simplifies Open Fronthaul analysis
- Detects over 50 types of errors
- Reduces time & cost spent identifying issues
- Streamlines testing procedures for timely deployment

Zenlynx

Global telecom infrastructure innovator.
Visit us: Hall 6 Stand 6E51

O-RU products:

- **Indoor Small Cell**
- **Outdoor Macro**
- **Indoor/Outdoor Micro**



Touchstone Test System

Production-grade testing software for O-RAN Cloud and AI infrastructure

- **System-level benchmarking & validation**
  Compute, network, timing (PTP) and fabric performance for O-RAN Cloud and Telco Cloud

- **Proven in Tier-1 production environments**
  Vodafone · Deutsche Telekom · Rakuten · Red Hat · Google · AWS

- **Extending O-RAN testing discipline to AI Factory platforms**
  GPU-centric, high-performance cloud infrastructure

Contact us info@voereir.com

VoerEir

The image is a representation of the product and may not reflect the final version. Specifications and design are subject to change.

Dell PowerEdge XR9700

The industry's first outdoor x86 server for Cloud RAN[1]

Rugged, zero-footprint solution for Cloud RAN and edge environments.

Built on the Dell PowerEdge XR8000 platform.

Drive Compute Without Boundaries

Ruggedized, IP66-rated server with Intel® Xeon® 6 SoC and Intel® vRAN Boost

- Delivers reliable edge and Cloud RAN performance in extreme conditions (-40°C to 46°C with solar loading).
- Provides a compact 15-liter volume design with closed-loop liquid cooling ensures thermal management efficiency.

Simplify Zero-Footprint Cloud RAN Deployments

Power-efficient Cloud RAN solution

- Supports up to 15 5G sectors.[2]
- Enables zero-footprint deployments on utility poles and sides of buildings, where space is at a premium.

Unlock Opportunity Beyond Connectivity

Deploy high-performance compute at the edge

- Enables AI, applications, and services where data is generated.
- Turns connectivity infrastructure into new revenue opportunities.

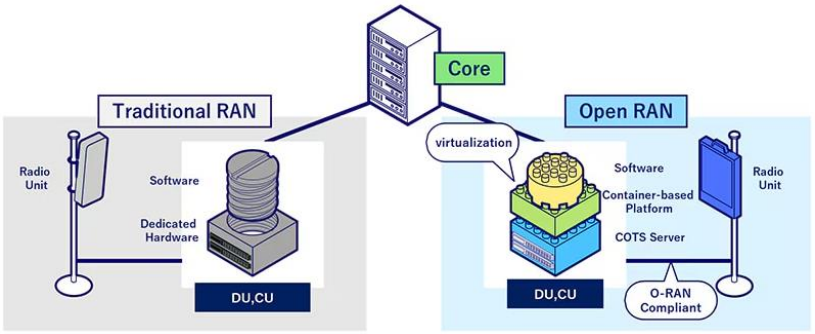
1. Source: According to Dell internal analysis, as of February 2026.
2. Actual implemented capacity depends on various factors including, but not limited to, spectrum, bandwidth and traffic profile.

DELL Technologies

KDDI's Initiatives for Open RAN Commercialization

Feb. 2022 → **Jan. 2023** → **Mid. 2025**

Commercial Deployment



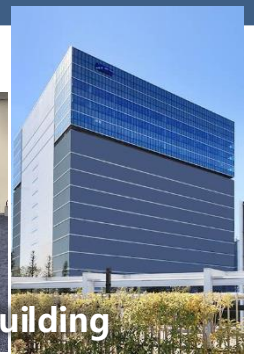
World 1st 5G SA Call
SU-MIMO with O-RAN multi-vendor integration
(SAMSUNG, 1Finity, Wind River, HPE, Intel)

World 1st MU-MIMO
with multi-vendor integration.
+ NSA capabilities
(SAMSUNG, 1Finity, Wind River, HPE, Dell, Intel)

+ 4G LTE capabilities
+ DB-MMU support
(3.7G+4.0G)
(SAMSUNG, Red Hat, HPE, Intel)

Japan TIC

Dec. 2022 ~



KDDI Tama Center Building

Fronthaul IOT 2024

Security Testing 2025

With support from MIC*

*MIC: Ministry of Internal Affairs and Communications

Tomorrow, Together KDDI おもしろいほうの未来へ。 au

Joint R&S + VIAVI O-RU Test Platform Accelerates Massive MIMO with Beamforming Validation for Next-Gen Open RAN

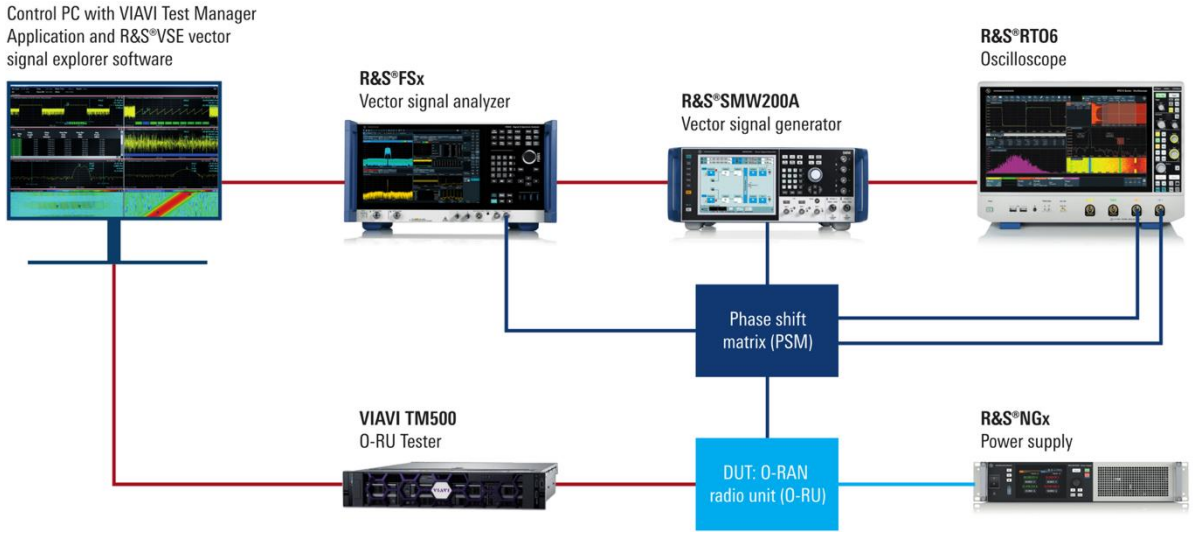
As O-RAN evolves toward large-scale Massive MIMO with beamforming in both uplink and downlink, conformance testing must advance to validate this foundational 5G—and future 6G—technology.

Rohde & Schwarz and VIAVI Solutions extend the existing O-RU test platform with a **scalable, upgradeable** path that enables automated conformance testing, comprehensive beamforming validation, and accelerated certification for high-performance O-RAN networks:

- **Fully automated solution** aligned with 38.141 and O-RAN WG4, supporting all Massive MIMO beamforming variants.
- **Future-proof, scalable upgrade path**—existing O-RU testers can be enhanced without adding separate systems or duplicating equipment.
- **Automated control and detailed result logging** streamline conformance workflows and accelerate certification processes.

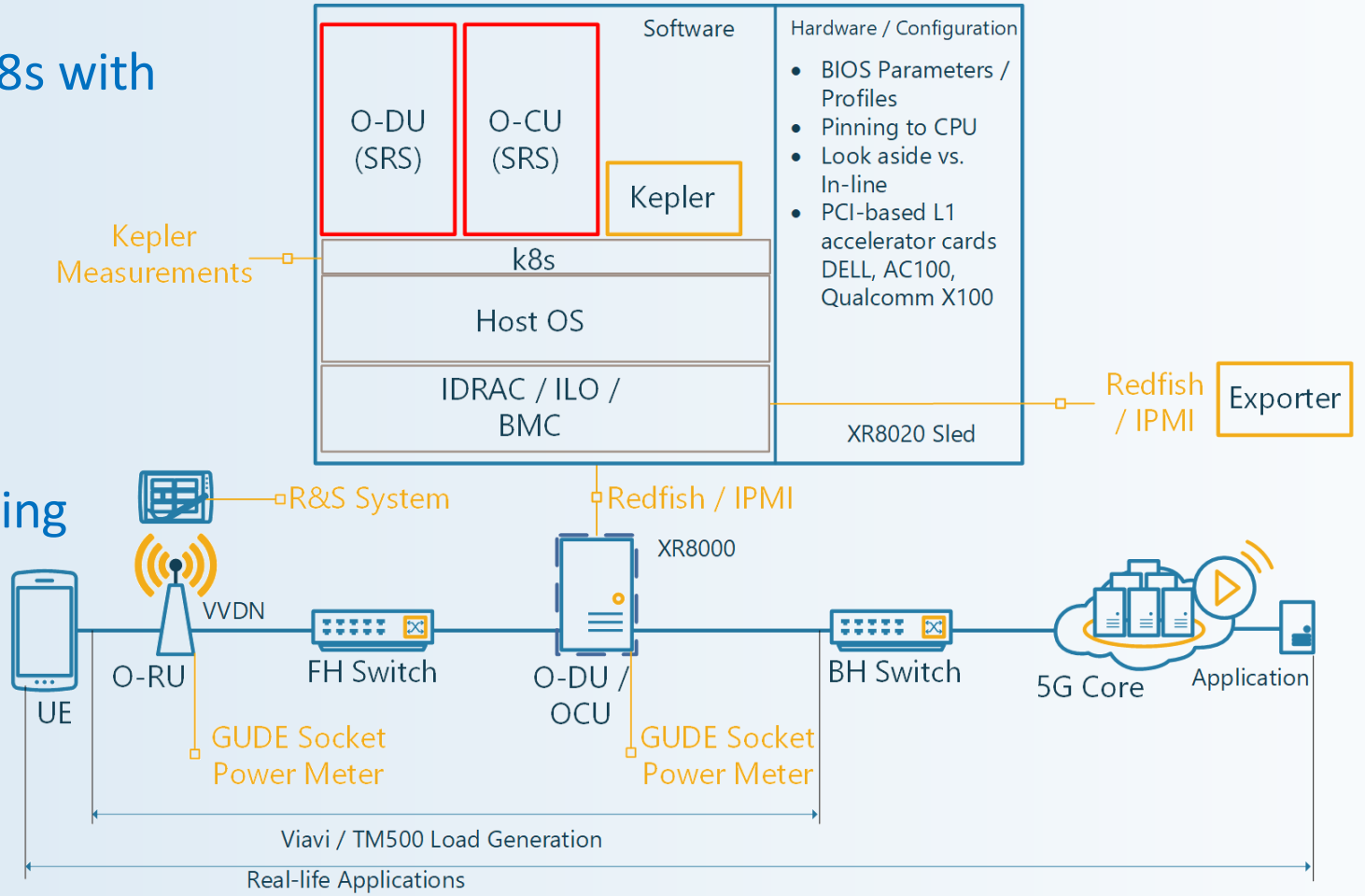
Test setup for O-RU M-MIMO with beamforming verification:

- **R&S®SMW200A** vector signal generator
- **R&S®RTO** oscilloscope
- **R&S®VSE** vector signal explorer
- **Phase shift matrix (PSM)**
- **VIAVI TM500** O-RU Tester
- **VIAVI (O-TMA)** O-RU Test Manager Application
- **Optional:** FSW signal and spectrum analyzer; R&S®NGx power supply series



Automated Deployment for Energy Efficiency Measurements in E2E Scenario

- Test environment fully deployed on k8s with E2E configuration
- Automated energy measurement on different test points
- CI/CD Pipeline integration
- Automated test execution and reporting



i14y LAB consortium partner

Supported by:

BISDN

EANTC European Advanced Networking Test Center

VIAVI

Berlin Partner Booth in Hall 7 | Stand C62

ARA PAWR & OTIC for Real-Time, High-Capacity Edge Wireless

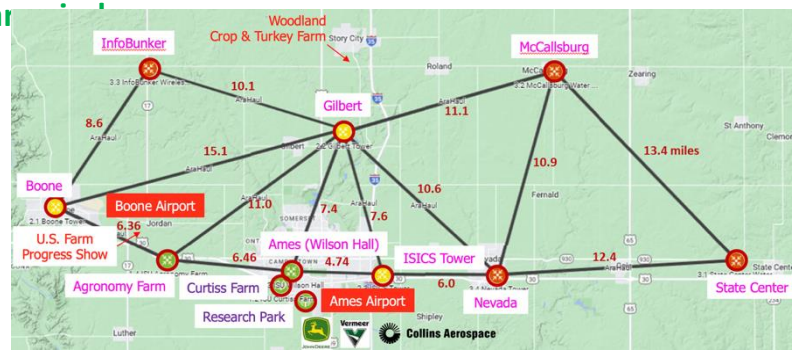
Remote Connectivity Challenge

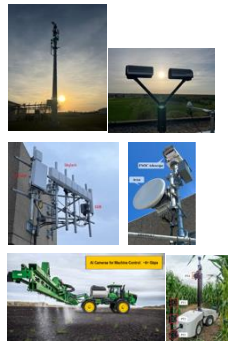
- Lack of connectivity as key barrier to real-time AI in remote areas (e.g., agriculture farms, tactical fields)
- Challenge of providing affordable, high-throughput connectivity to remote areas
- Challenge of wireless spectrum access

ARA OTIC Focus

- 5G/6G research, development, testing and integration
  - far-edge, real-time, high-capacity
- Open-source prototyping & ecosystem building
- Production systems testing & integration
  - performance, inter-operability, conformance

ARA PAWR Wireless Living Lab in Central Iowa





- High-capacity 5G/6G wireless access, x-haul & LEO satcom platforms covering 500+ sq. kilometers: *up to 100Gbps+ x-haul, 3Gbps+ access*
- Support for bring-your-own-device (e.g., O-RU, O-DU, O-CU, RICs etc)
- Collaboration across sectors (wireless & AgTech), TRLs, communities

O-RAN & Advanced Wireless Research & Innovation

- Robust, high-capacity *wireless x-haul* via heterogeneous x-haul wireless platforms operating from free-space optical (194THz) down to mmWave and microwave bands, as well as *spatial, temporal, and spectral diversity*
- Affordable, high-capacity *wireless access* via low-frequency operation, massive MIMO, spectrum & RAN sharing, predictable interference control
- *Integrated* wireless access, x-haul, and LEO satellite communications
- RaptorQ coding based *liquid wireless network architecture* for robust, real-time communications across heterogeneous wireless access and x-haul systems

Selected Projects at ISU WiCI

wici.iastate.edu

- *NTIA Innovation Fund:* ACCoRD, ArMORED
- *Radio Dynamic Zone for spectrum innovation*: ARA-NRDZ
- *MISO free-space optical communications*: AraOptical 2.0
- *Real-time liquid wireless networking at far edge*: RT-LWN
- *AI Institute on AI cyberinfrastructure*: ICICLE
- *Open-source ecosystem for broadband prairie*: OPERA

Key Participants

- ISU Center for Wireless, Communities and Innovation (WiCI)
- 65+ public-private partners (e.g., Skylark Wireless, Ericsson, Collins Aerospace, John Deere, Vermeer, AT&T, City of Ames)

Open RAN is ready for deployment

ERICSSON

Open RAN is a reality

- AT&T deploys first 3rd party rApp leveraging EIAP (Jul ‘25), MasOranage deploys rApps from both Ericsson and 3rd party on EIAP (Dec ’25)
- AT&T completes first commercial Open RAN call with 1Finity C-Band TDD radio and Ericsson purpose-built RAN compute in October 2025. Open FH compliant 1Finity FDD radios are also deployed in AT&T’s commercial network
- Ongoing IOT between Ericsson purpose-built RAN compute and 3rd party Cat-A radios (e.g., 1Finity) in ACCoRD lab
- With our public SDK, EIAP currently (February 2026) boasts an ecosystem of 87 members (20 mobile network operators), 2200+ rApp developers, and 88 rApps (63 from ISVs)
- Open RAN security, strengthened by O-RAN ALLIANCE, is as secure as the traditional networks

Robust Open RAN roadmap

Open Fronthaul (Open FH)

- DMRS-BF-EQ supported m-MIMO Cat-B radios for Cloud RAN
- Cat-A radios for both Cloud RAN and purpose-built compute RAN
- Open FH hardware ready remote and m-MIMO radios from day one, 130+ products

Cloudification

- Commercial Cloud RAN with Intel technology, from SPR-EE to GNR-D while exploring future evolution options
- Continue collaboration with AMD and ARM as part of Cloud RAN software portability strategy
- Demonstrate porting our Cloud RAN software on Nvidia compute platform

Open management

- EIAP (SMO) with multivendor radio and cloud infra O&M through O1 and O2 interfaces
- EIAP ecosystem for rApps development with R1 interface and rApps aaS

Leader in O-RAN ALLIANCE

- Among the top two contributors since inception, top contributor in 2024-2025
- Four co-chairs, most among vendors (WG1, WG2, WG5, WG11)
- Editors of 10+ specifications
- Elected to CAG (Contributor Advisory Group) for O-RAN EC
- Served as co-rapporteur for driving the “Open FH ULPI work item” to completion
- Leading 3GPP and O-RAN alignment

Open RAN @ Ericsson Hall 2

- Evolve network with AI (includes Cloud RAN)
- #1 Automation platform and ecosystem, Agentic rApps aaS
- Speaker Corner with rApps from multiple CSPs and ISVs leveraging open EIAP ecosystem
- Discover evolution of our RAN portfolio towards Open RAN

aaS: as a Service, ACCoRD: Acceleration of Compatibility and Commercialization for Open RAN Deployments, Cat-A: Category A, Cat-B: Category B, CSP: Communications Service Provider, DMRS-BF-EQ: Demodulation Reference Signal based Beamforming with Equalization, EIAP: Ericsson Intelligent Automation Platform, EC: Executive Committee, GB: Grace Blackwell, GH: Grace Hopper, GNR-D: Granite Rapids - Xeon D series, IOT: Interoperability Testing, ISV: Independent Software Vendor, m-MIMO: massive Multiple Input Multiple Output, O&M: Operations and Management, SDK: Software Development Kit, SPR-EE: Sapphire Rapids – Edge Enhanced, SMO: Service Management and Orchestration, ULPI: Uplink Performance Improvement.

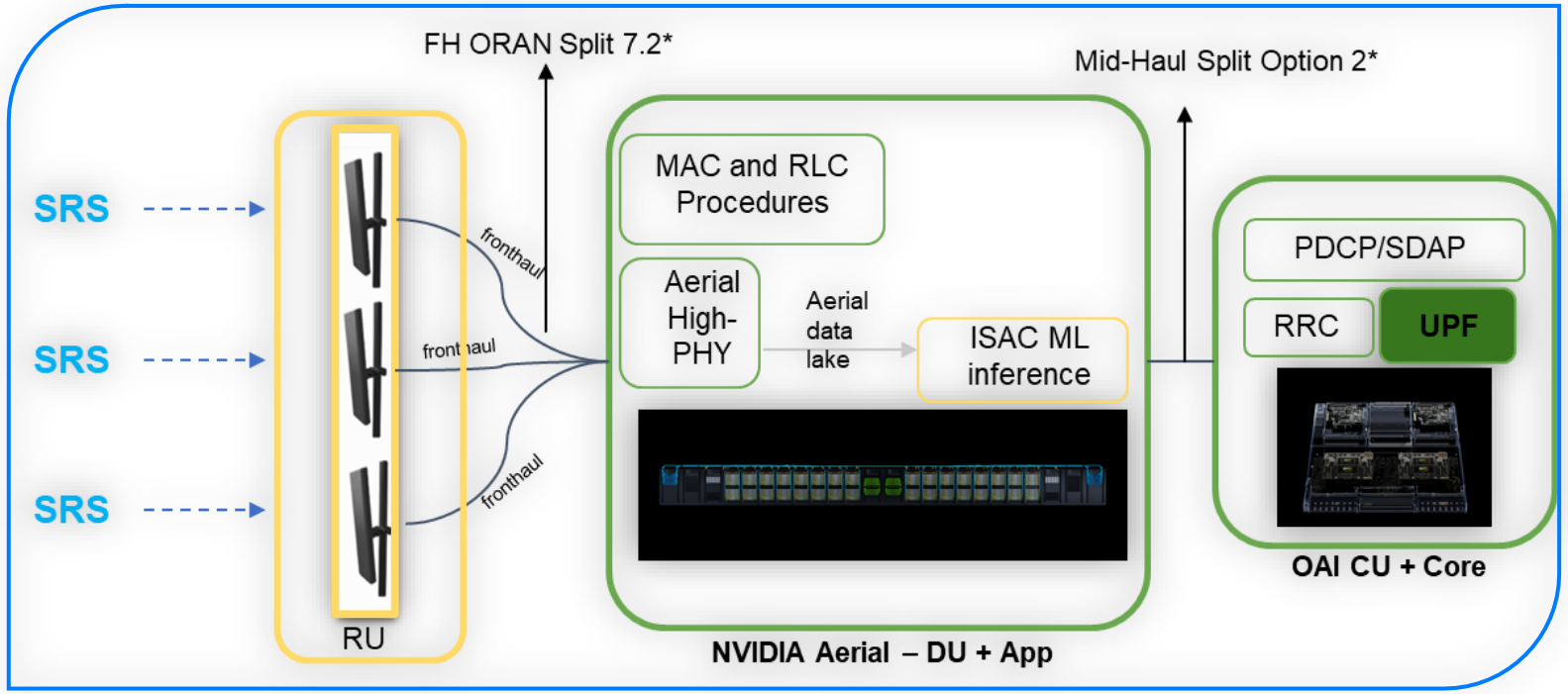
Tiami Networks – **PolyRAN**

Cooperative **ISAC** for **O-RAN** Networks

PolyRAN transforms the radio access network into a cooperative sensing platform by enabling communication nodes to exchange and fuse signal reflections across the network.

KEY HIGHLIGHTS

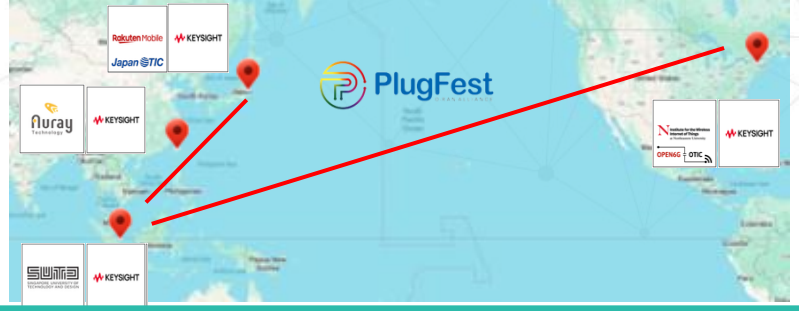
- **O-RAN** aligned cooperative **ISAC** architecture
- Multi-cell sensing and spatial awareness
- Detects RF-silent and non-cooperative targets
- Extends sensing from the edge to the entire network



Built to support emerging **6G** and **O-RAN** network evolution, **PolyRAN** enables new sensing-driven network intelligence and services.

Conformance | End-to-End | IOT | RIC

May 2024: Testing and integration solutions generally available



Open platform for integration
- **6 RU** vendors
- **5 CU/DU** pairs
- **4** core networks
- RICs and automation
- 3 RAN acceleration platforms

Fall 2024: Multiple testing engagements

Summer 2025: First US-issued certificate for SOLiD O-RU

Jan 2026: Certificate for AmpliTech 64T64R O-RU

- Open-source and commercial
- eSIMs and 24/7 private 5G

OPEN6G

at Northeastern University

open6g.us

Research & Development (R&D)

- R&D in NextG Open RAN and cellular
- Develop new **Proof-of-Concept** and **end-to-end** demonstrations
- Focus on real-world systems

Testing & Integration (T&I)

OPEN TEST AND INTEGRATION CENTRE

North American OTIC in the Boston Area

System Integration (SI)

- **Optimization** and operations
- **System design** and digital twinning
- End-to-end design and provisioning

North American OTIC in the Central US Innovation Corridor (The University of Texas at Dallas)

MWC Barcelona 2-5 March 2026

- DORADO at UT Dallas – Now an Official OTIC Lab
- Multi-Vendor Performance, Conformance & Security Validation
- First TC16 Test under NTIA ACCoRD (with Keysight)
- Successful Hybrid SMO Demonstration
- NTIA ACCoRD Public Expo – Multi-Vendor Showcase Nov 18–19, 2025 – Dallas
- Energy-Efficiency Test Execution at OUTD OTIC Dec 9–10, 2025
- International Engagement – *IORS 2025* (Japan)

Scan me

From Conformance to Autonomous Operations - Validated in Multi-Vendor OTIC Environments.

KEYSIGHT

Pioneer 5G-Adv to 6G

Launch Next-Gen Space

Unlock AI Performance

Scale AI RAN