AiVader Redefine Networks



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www.aivader.com

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About AiVader GmbH

AiVader GmbH, founded in 2021, is a spin-off from TU Ilmenau focused on revolutionizing Private 5G networks. The company provides an innovative network management solutions designed specifically for industrial environments. By offering modular, open, and intelligent solutions, AiVader simplifies the orchestration, management, and optimization of private 5G networks, enabling seamless multi-vendor integration, Al-driven automation, and energy efficiency. With a strong leadership team and strategic partnerships, AiVader is positioning itself as a leader in the growing European Private 5G market.

www.reallygreatsite.com

Network Management of Private 5G Networks AiVader rApps Portfolio Service Management & Orchestration

SMO for Pvt 5G

Service Management & Orchestration

CI/CD and DevOps Automation

 Enables rapid updates, automated testing, and reliable rollout of network functions

Microservice based architecture

Open Source Integration

Open5GS, srsRAN, OAISDRs, USRPs

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SMO

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Infrastructure Orchestration

- Manage edge and cloud servers
- Deploy and scale RAN/Core VNFs
- Container orchestration (Kubernetes, Docker, etc)

Core and RAN Management

- Life cycle control
- FCAPS
- OpenRAN, Network Slicing, Handovers, etc

Network Optimisation

 OpenRAN based Near and Non-RT RIC deployment
 Manage xApps/rApps

Vendor Agnostic

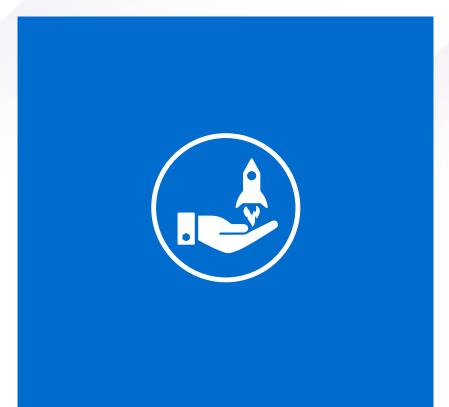
Multi-vendor, Multi-interface (O1, O2, NetConf, Rest, gRPC, etc)

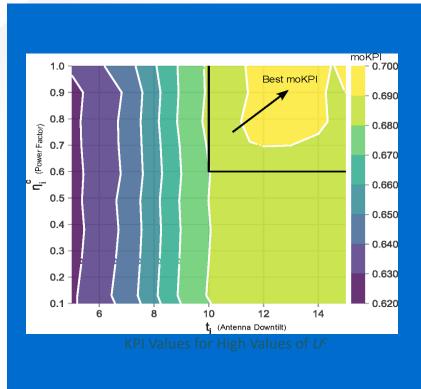


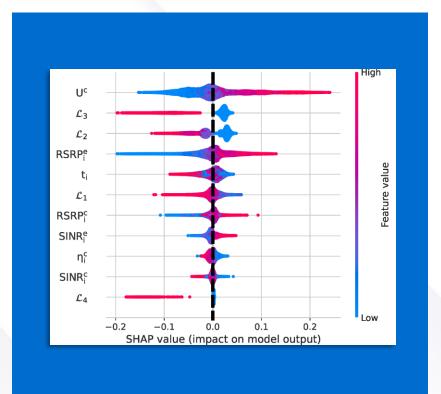
Network Optimisation

xApps and rApps based on ML and xAl

- Coverage and Capacity Optimisation (CCO)
- Energy Saving
- Handover OptimisationLoad BalancingNetwork Slicing

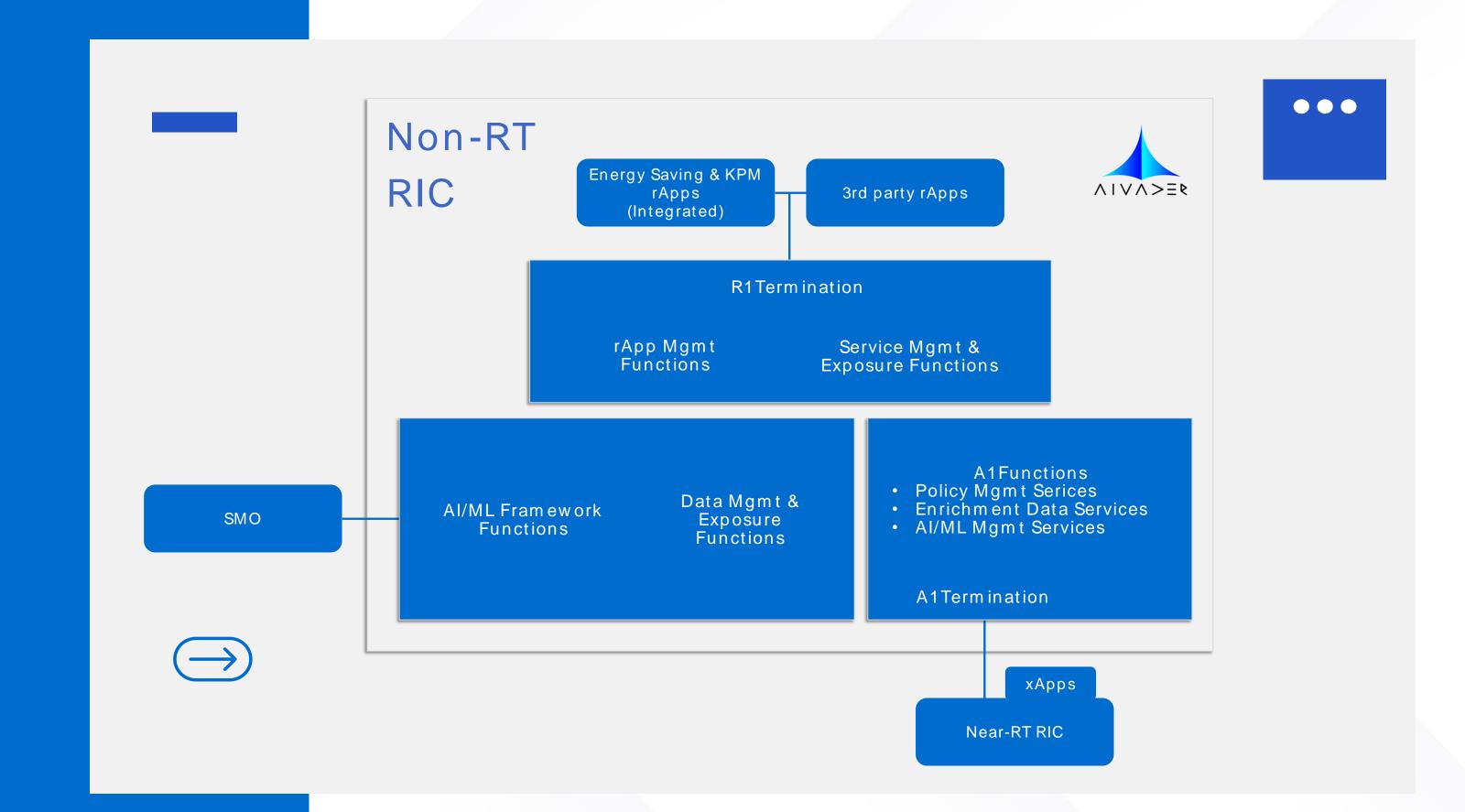














Projects and Partners

- IntelliGn: Automated network management system of end-to-end private 5G Network
- 5G-KIMA: AI-based Coverage and Capacity rApp/xApp for OpenRAN-based campus networks
- 5G-ECOnet: Energy saving in campus networks
- FraudDetect: AI-based detection of fraud in distributed networks for the energy sector
- 6G Campus Ilmenau: Flexibly expandable campus network with fast packet processing capabilities













































Thank You.



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