

Intelligent infrastructure of the future for RAN sites

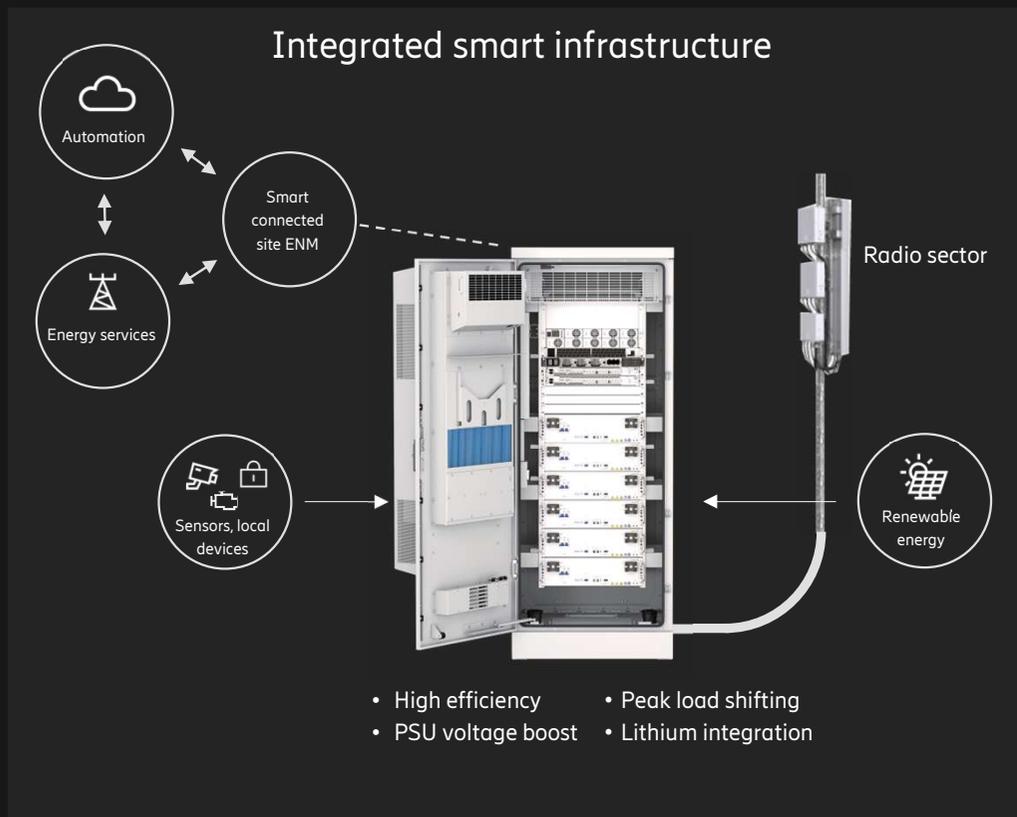
Ericsson Radio System



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Digitalized and automation driven RAN site



NW wide automation
Energy orchestration of site infrastructure

Remote site infrastructure control and visibility

Local site controller for all site interfaces

Site solutions for all use cases integrated renewable energy, battery integration, remote locking, energy metering

Intelligent and resilient RAN Site infrastructure

Site system out of the box

Energy Orchestration

Best in class security

Autonomous and data driven



Site of the Future



Verified and tested system
Full eco-system HW + SW
3party integration

Grid balancing
Energy slicing
Renewable energy

Embedded security
Robust synchronization
Outage Management

Digital twin
AI based Automation
Common O&M

Energy efficiency

A holistic approach to tackle the energy bill challenge

RAN Software

Low/Medium Load

● Sleep modes

Peak Load

● Optimized Scheduling

Service Aware

● Integration with UE Grouping

Intent driven
Real-time
Orchestrator

● Automated Energy Saver

Non-Real
time
automation

● Energy Orchestrator



Site Energy Orchestration

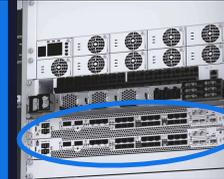
Site energy controller to peak shave, load shift and balance energy

-30%



Radio hardware

<10W in deep sleep
-40% power consumption since 2021

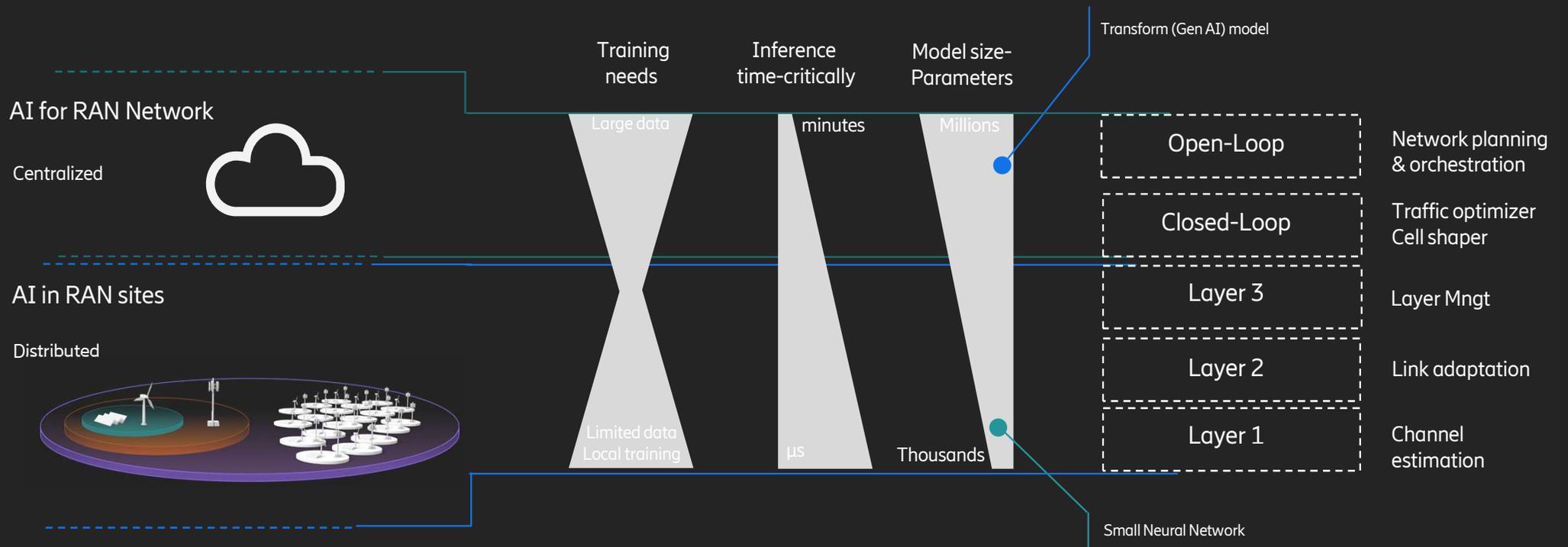


RAN Compute hardware

30 > 15 > 6 Watts per Gbps

Embedded AI in Radio Access Networks

- Different needs across the network unlocks performance, resilience & security gains



Intelligent Infrastructure of the future





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