



Stadiums and beyond: The *shift* to all-digital in-building wireless

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Stadiums are the **ultimate test** of in-building wireless.



**Extreme
Density**



**Multi-Operator
Always-On**



**Real-Time
Applications**



**Zero Failure
Tolerance**

If it works here, it works anywhere.

Stadiums expose the limits of today's networks.

Traditional architectures limit scale, visibility, and control.

RF-BASED ARCHITECTURES

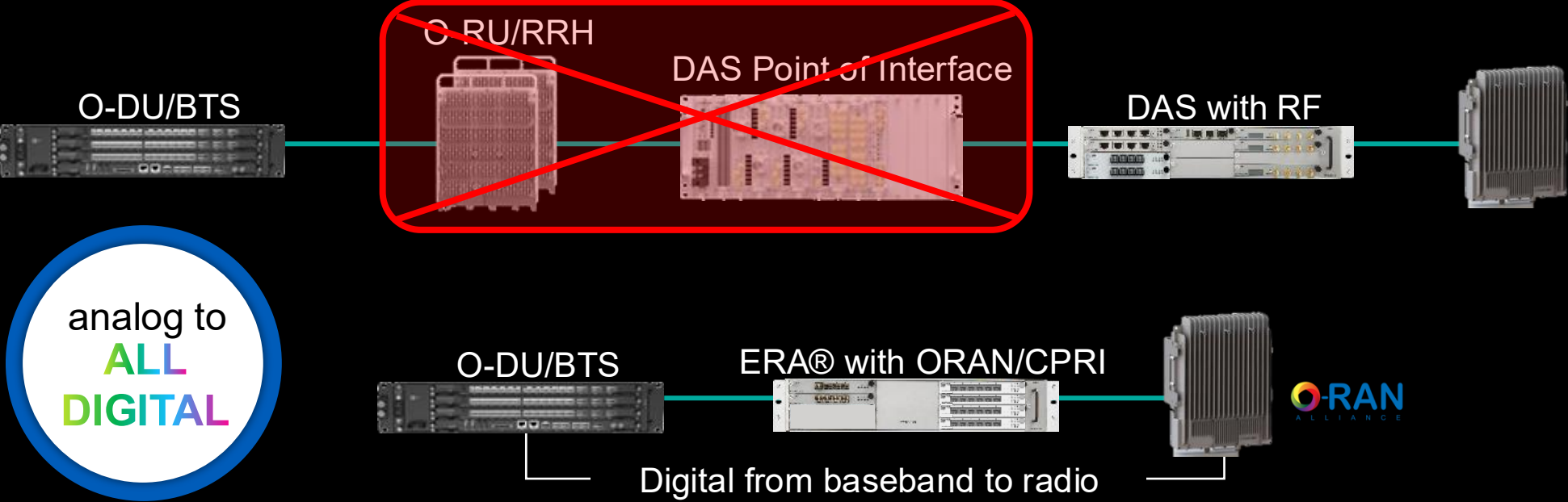
traditional DAS	full/partial RF path
repeaters	radiated RF

CHALLENGES

complexity, failure points	RRH, POI, combiners
static capacity	not dynamic/upgradable
slow onboarding	intensive installation
performance metrics	no visibility

All-digital isn't the ~~future~~.
It's the foundation.

From Analog to Digital.



Pure Digital Signal



Smaller Footprint



End-to-End Synchronization



Lower Cost

FIRST ALL-DIGITAL DAS AT STADIUM SCALE

AT&T
STADIUM



Operator A

OEM 1 CPRI

Operator B


OEM 2 CPRI

Operator C

OEM 3 O-RAN

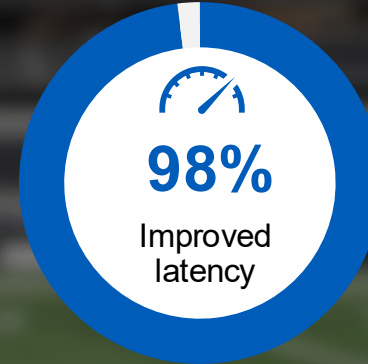
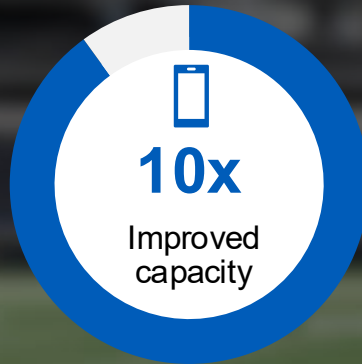

105,000
Fans


660
Zones

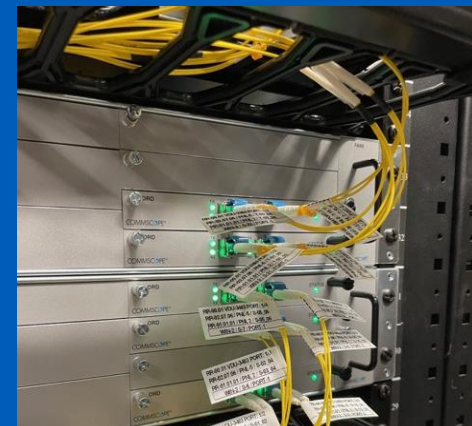
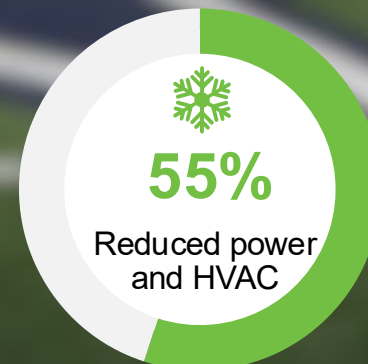
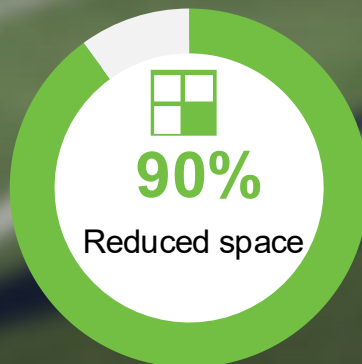

3000+
Antennas

Everything Improves.

Performance



Sustainability





Elevating transportation Improving reach, minimizing footprint



Same architecture. City scale. New economics.

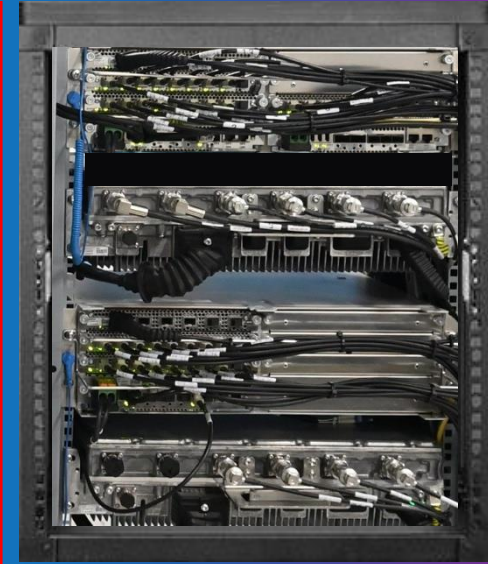
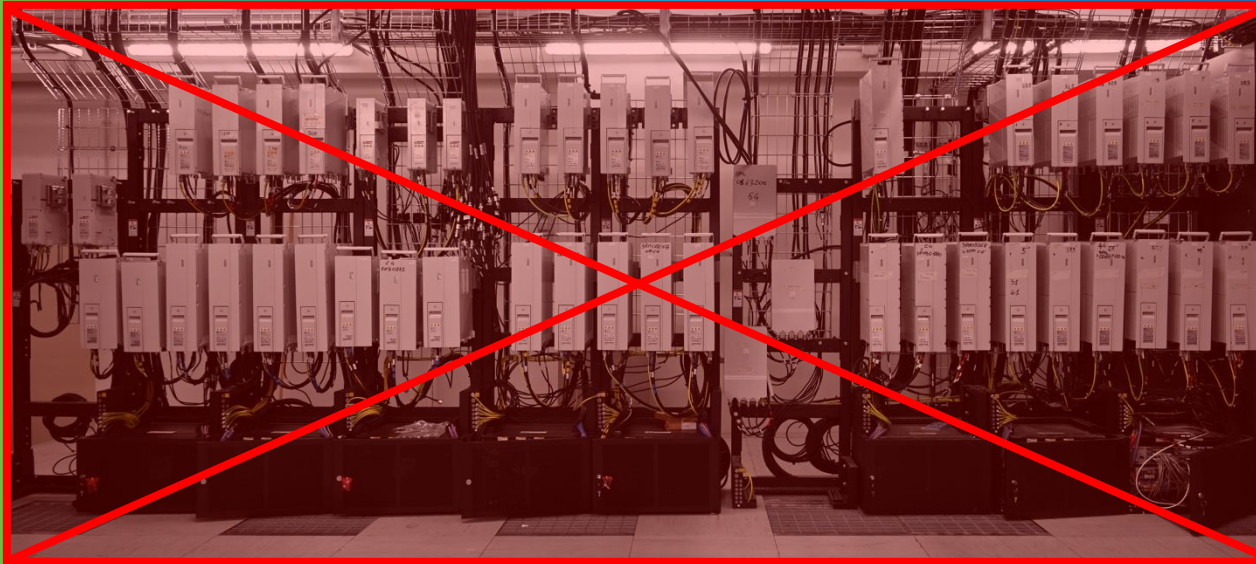




Elevating transportation

Improving reach, minimizing footprint

19 to 1 Rack(s)



Enterprise Neutral Host at City Scale

Direct-to-core small cell architecture



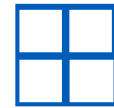
All UK MNOs

Core connectivity to
four UK MNOs



2 years

Neutral host
deployments



6M+

Square feet
deployed

Same all-digital shift is happening in small cells

AI-RAN tunes the network in **real time**.



**Software-Defined
Capacity**



**Closed-Loop
Telemetry**



**Energy-Aware
Operation**



**Experience
Optimization**

Without all-digital in-building, AI-RAN **stops at the door**

All-digital isn't the ~~future~~.
It's the foundation.

Networks that win will be built digital — end-to-end

—• Thank You

