Driving O-RAN to Commercial Reality

Open RAN India 2021

Colin Willcock, Open RAN and EU Research Alliance

June 16, 2021

Nokia is committed to O-RAN

First

Nokia the first global RAN vendor in O-RAN Alliance and Open RAN Policy Coalition

Driving

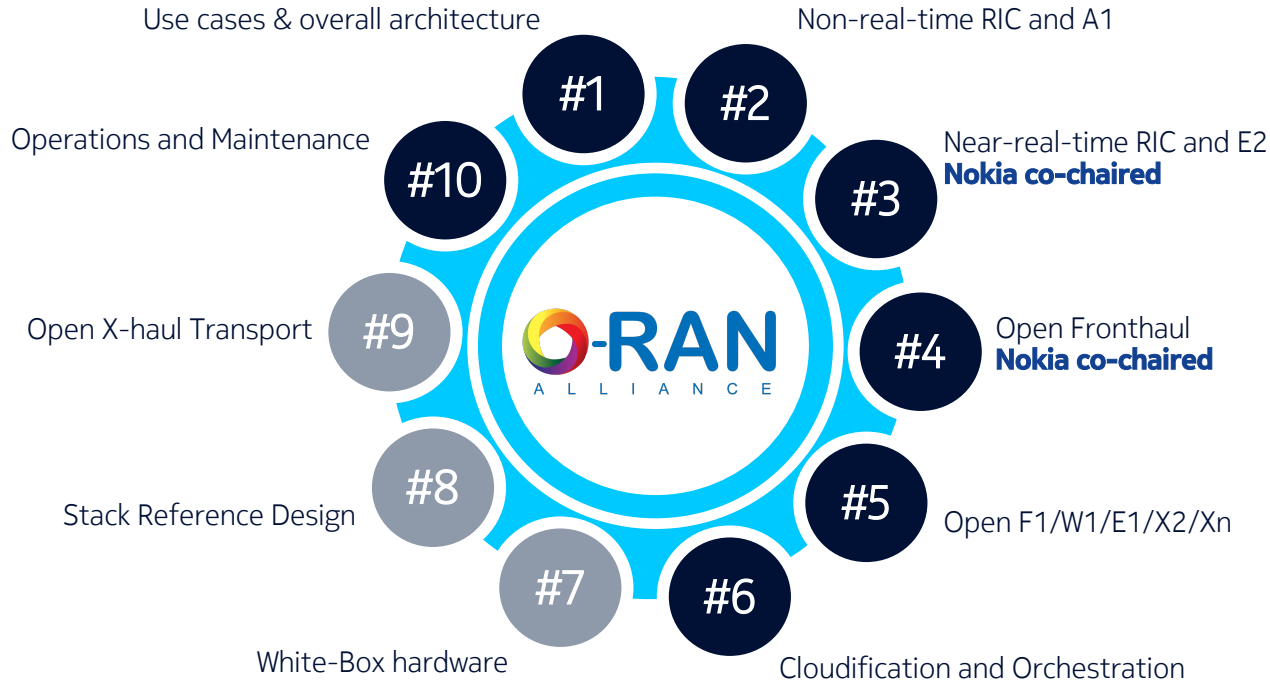Nokia active in all O-RAN working groups, co-leading RIC and Open Fronthaul groups

Open

Leading in O-RAN and vRAN for best performance and lowest TCO in an open, multivendor environment

Making O-RAN and vRAN commercial reality

O-RAN
ALLIANCE

NOKIA

Nokia is the leading vendor in O-RAN

First major vendor to join O-RAN Alliance & Open RAN Policy Coalition

Use cases & overall architecture

Non-real-time RIC and A1

Operations and Maintenance

Near-real-time RIC and E2
Nokia co-chaired

Open X-haul Transport

Open Fronthaul
Nokia co-chaired

Stack Reference Design

Open F1/W1/E1/X2/Xn

White-Box hardware

Cloudification and Orchestration

#1 #2 #3 #4 #5 #6 #7 #8 #9 #10

O-RAN ALLIANCE

NOKIA | MOBILE EXPERTS

"Nokia is the only major vendor that has fully committed to actively developing O-RAN interfaces, ensuring its 5G RAN solutions support the future open ecosystem operators seek."

Joe Madden
Principal analyst at Mobile Experts

"Nokia has differentiated itself from its closest peers by demonstrating commitment to supporting RAN virtualization and Open RAN architectures. "

Ed Gubbins, Principal Analyst, Global Data

Nokia leading the work

Nokia attending

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Multi-vendor decision and implementation must consider certain principles

Business driven decision

Organisation for success

Strategy Content / Timing

Long term sustainability

Additional costs and complexities need to be factored by CSP in a business case
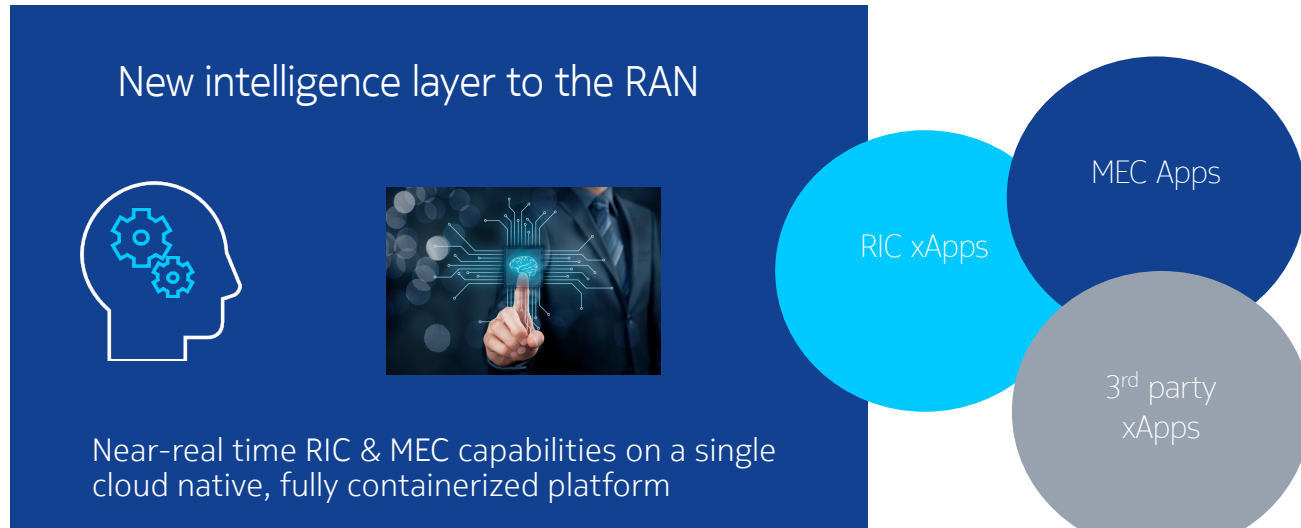
A clear responsibility matrix among all parties, CSP and vendors

Detailed alignment, multi-vendor IOT testing

Too fragmented sub-scale vendor landscape should be avoided for long term sustainability

Public

NOKIA

Driving 5G innovation with Nokia Service Enablement Platform
O-RAN compliant RAN programmability and AI/ML based RAN optimization

New intelligence layer to the RAN

Near-real time RIC & MEC capabilities on a single cloud native, fully containerized platform

RIC xApps

MEC Apps

3rd party xApps

NOKIA

O-RAN
Key take-aways

1

Nokia is investing to lead in Open RAN solutions.

2

Nokia is developing O-RAN compliant solutions

O-RAN is optional and the best solution is different for every case.

3

O-RAN changes the ecosystem.

A multivendor solution requires strong governance by the CSP.

4

E2E performance remains a key factor.

5

Long term relationships remain important

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6

Test efforts and vendor alignment

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