

The ecosystem's perception of 5G

Consumers perception of 5G



Familiar with 5G find it appealing vs. 23% of the unfamiliar

Willing to pay 10% more 52%

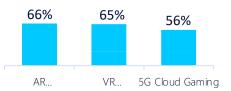
Willing to pay 5% more 63%

Consumers view on video applications

65%+

Consumers find 5G video capture and detection applications appealing

Immersive applications experience



Enterprise perception of 5G

#1

Video surveillance is the top industry use case for 5G, appealing to 83% of target respondents

70%+

Respondents find Industry use case of connected vehicle, cloud robotics to drive industry 4.0

73%

of SMBs prefer 5G FWA as an alternate to broadband

Top industries which offer best 5G opportunities

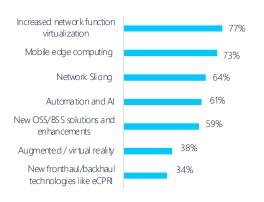


CSPs perception of 5G

NFV and edge seen as critical to 5G success

70%

CSPs believe further investment majorly in NFV and MEC will help them monetize 5G





COVID-19 accelerates new reality...







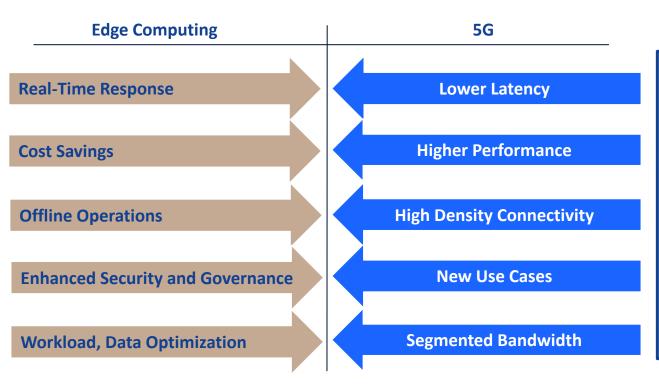




Remote X (X = control, interaction, treatment, assembly, manipulation, diagnosis...)

... validating future of cloud/edge, 5G, private networks

Importance of Edge Computing /AI and 5G

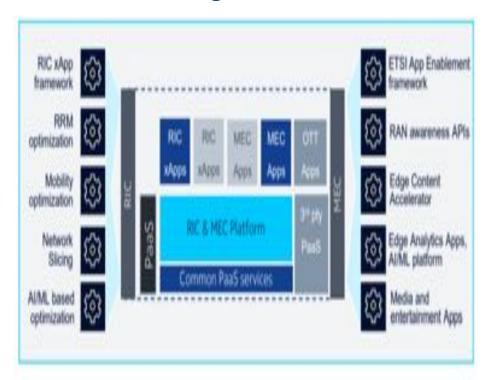




Major ICT spend for next 10 years : 5G enabled Edge Cloud and AI

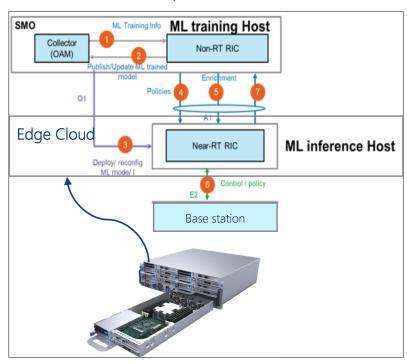


Al and ML in Edge Cloud



Confidential

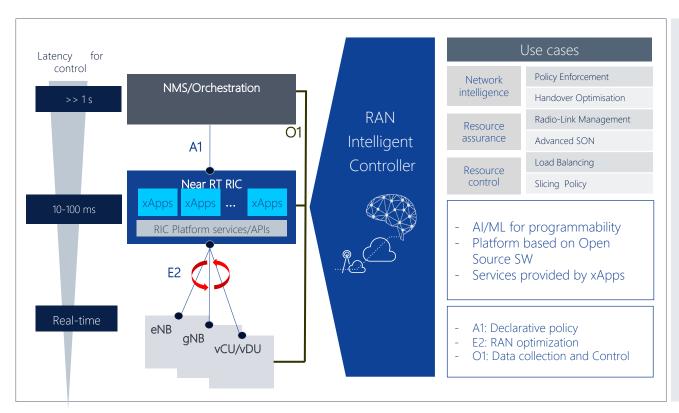
AI/ML flow





RAN Intelligence Controller (RIC)

SON-like RAN programmability via AI/ML and customized applications



- RAN optimization and automation from AI/ML
- Fast closed loop to deliver real-time SON benefits
- Leverage AI/ML Cloud capabilities
- Supports LTE and 5G,
 Classical RAN and vRAN
- Open API towards 3rd
 party Applications (xApp)
 which need to be
 integrated with the RAN

RAN Innovation – RIC Use Cases



Cell coverage

+ 5%

Power saving

10-20%

mMIMO dynamic cell parameter optimization

Dynamic adjustments of sector coverage, gob according to network scenarios, traffic and interference

Mobility Load Balancing

Dynamic adjustment of sector coverage according to deployment scenarios, traffic and interference change

Throughput

+ 8-10%

Data analytics

Al/ML

Cell and UE anomaly detection

Identify abnormal UE behavior and security attacks at near Real-time for proactive admission control barring.

UL parameter optimization

Maximize combination of DL & UL throughput under given conditions in the cell (load, UE speeds, etc.).

Traffic Steering

EN Dual Connectivity (Dualco) optimization based on Cell Load, Network rules, E2 Policy towards eNB and gNB from single A1 intent

Predictive Video Analytics

Near real-time customer experience analytics by optimizing RAN parameter and resources for user experience

Live network power saving

Learn traffic patterns to set up specific power saving schemes for regions and time





NOKIA