LAS VEGAS MWC GSMA | In partnership with ctia

5G Futures Summit

Welcome

Session moderator

Barbara Pareglio
Senior Technical Director
GSMA

MWC GSMA | In partnership with ctia | LAS VEGAS SEPTEMBER 26-28 2023

Session 2

Powering the next wave of innovation with 5G-SA-Advanced

LAS VEGAS MWC GSMA | In partnership with ctia

Agenda

Session 2 keynote speaker(s)

Barbara Pareglio, Senior Technical Director, GSMA

Shkumbin Hamiti, Head of Network Monetization Platform, Cloud and Network Services, Nokia

Session 2 panel member(s)

Patrick Castagnino, Connectivity Business Development for Digital Aviation, Airbus

Dr Neeraj Mittal, Secretary, Department of Telecom, Ministry of Communications, Government of India

Mikko Jarva, Head of Portfolio & Architecture, Network Monetization Platform, Cloud and Network Services, Nokia

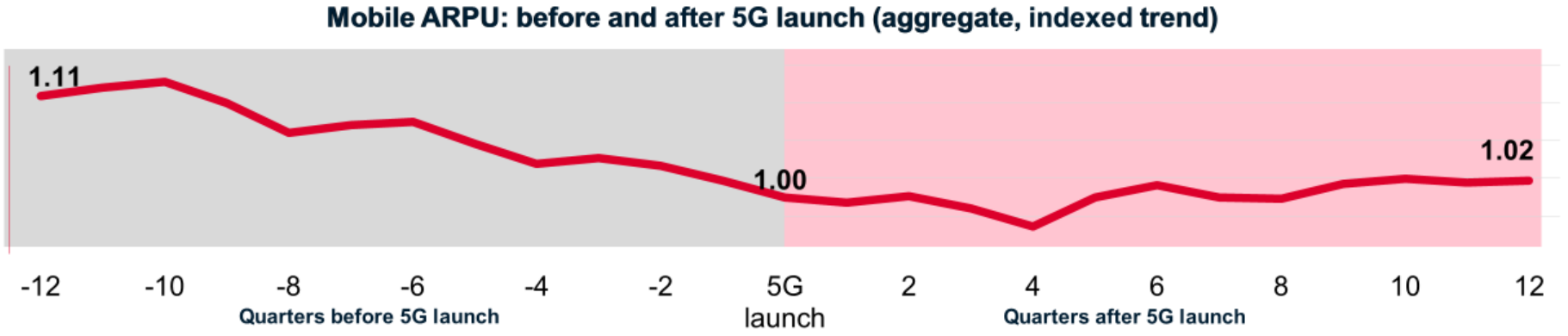
Jurrie van den Breekel, VP, Strategic Partnerships, Spirent Communications

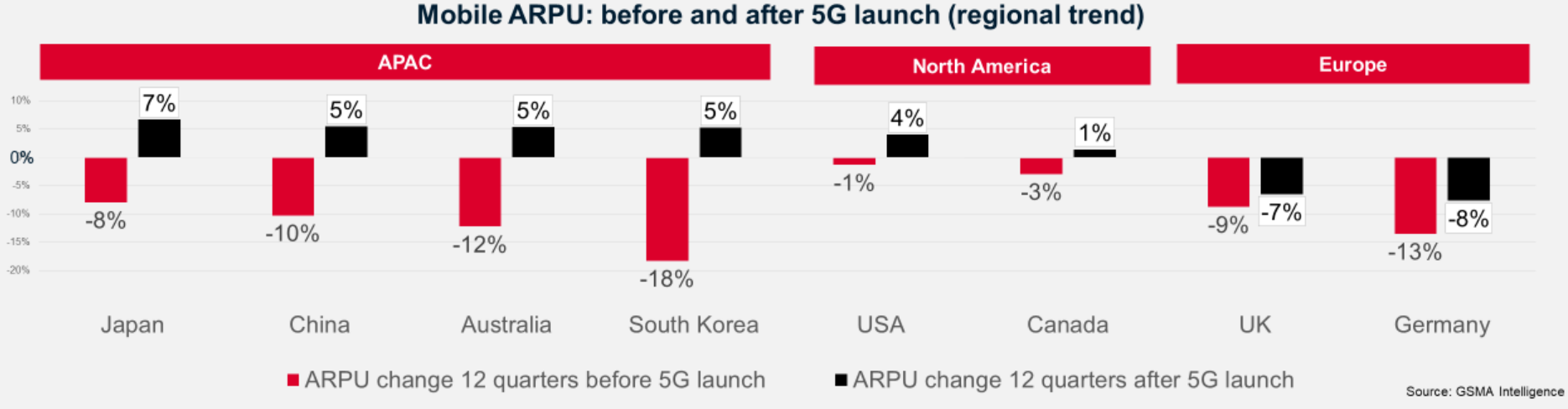
5GSA deployments update

Where are we today?

5G reality check in 2023

Is 5G having an impact on 5G? Where?

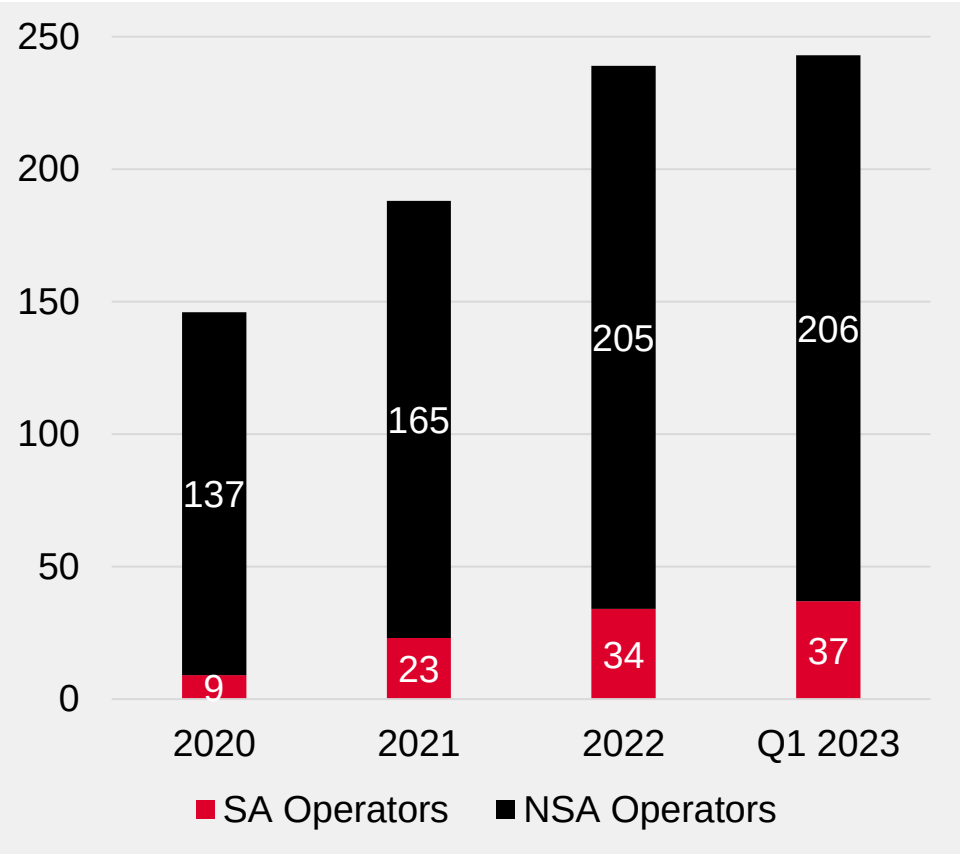




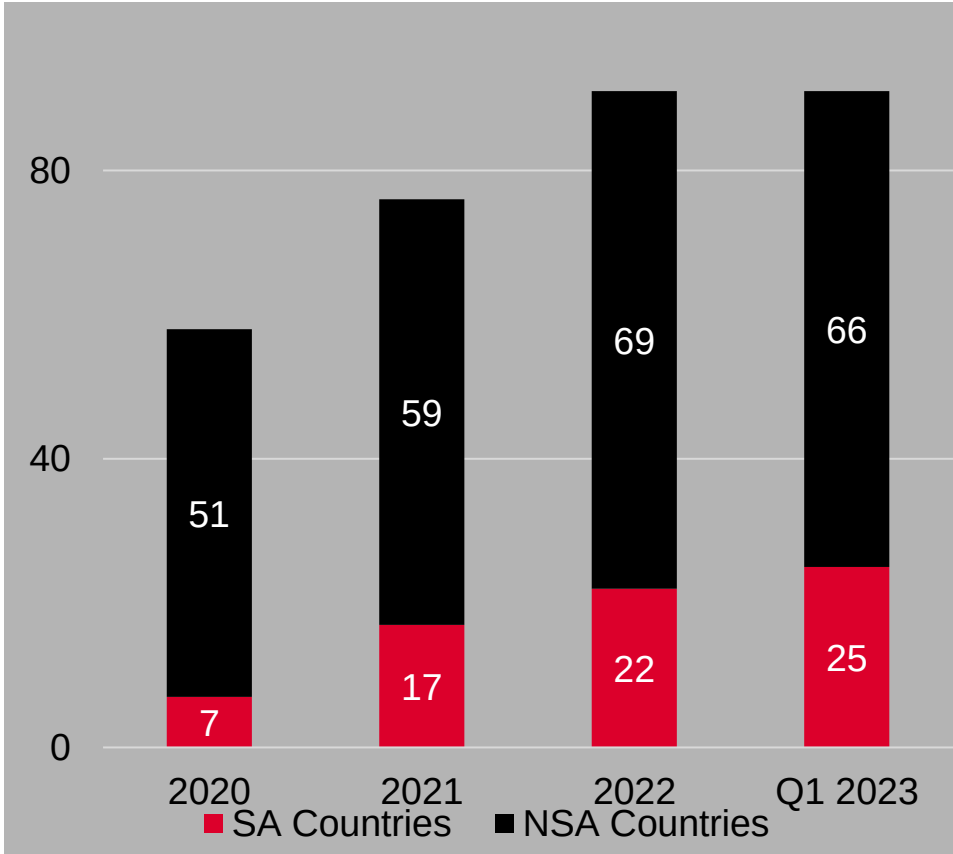
5G implications: NSA vs. SA

We know where we started. We know where we want to go.

SA vs. NSA: Operator Launches



SA vs. NSA: Markets w/ Support

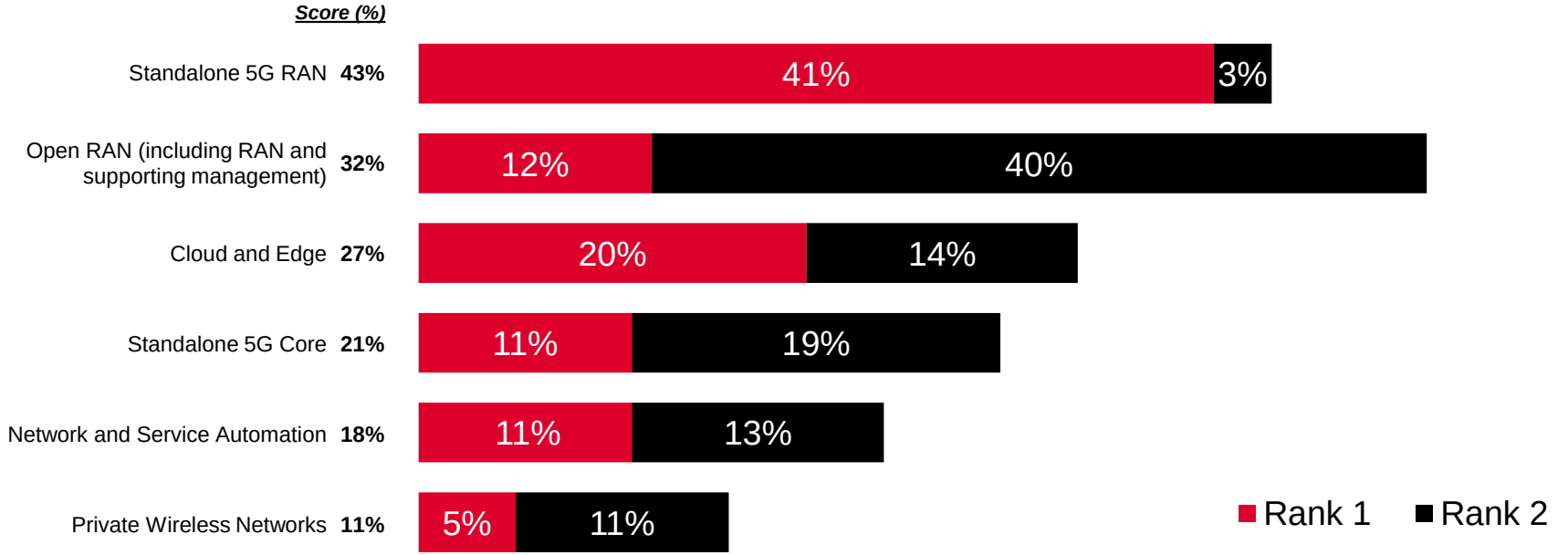


5G circa 2023: what we know

standalone 5G is (finally) beginning to get the attention it deserves

Network Investment Priorities

Over the next 24 months, in which technologies and capabilities do you expect to make the greatest network investment?



Source: GSMA Intelligence Operators in Focus – Network Transformation Survey 2023

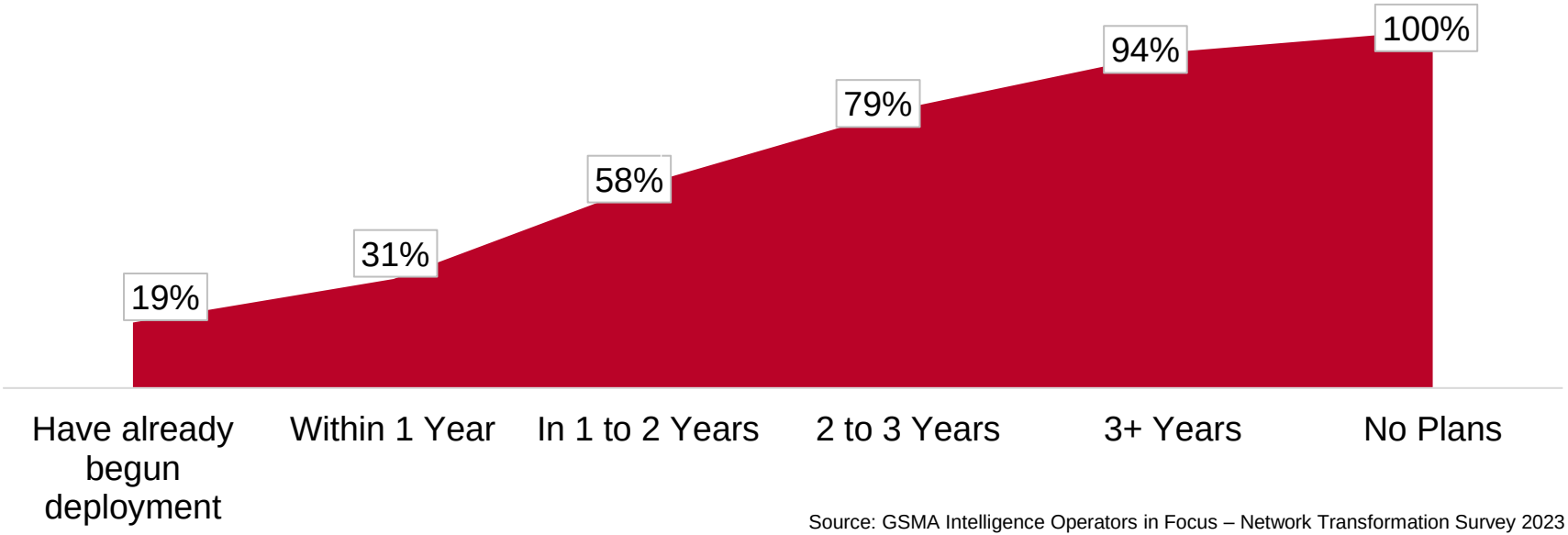
GSMA

5G Circa 2023: What we Know

early plans for Standalone deployment were overly-optimistic

5G Deployment Timing

Considering your current 5G network assets and network strategy, when do you plan to deploy Standalone 5G?



Source: GSMA Intelligence Operators in Focus – Network Transformation Survey 2023

GSMA

Scan the QR code
to subscribe to GSMA Networks to stay up to date with the latest news, events and industry updates

© GSMA 2022

MWC GSMA | In partnership with ctia | LAS VEGAS SEPTEMBER 26-28 2023

5G Futures Summit

5G-Advanced on the road to 6G

Shkumbin Hamiti
Head of Network Monetization Platform,
Cloud and Network Services
Nokia

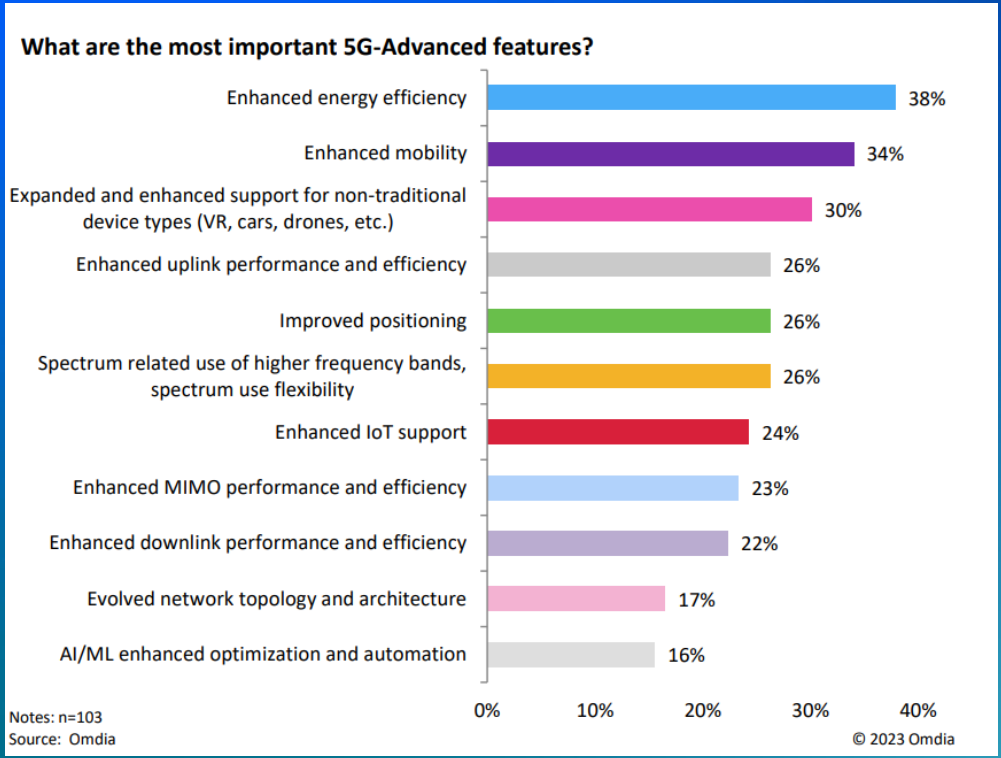
Powering the next wave of innovation

Shkumbin Hamiti

26 September 2023

© 2023 Nokia

What are the most important 5G-Advanced features?

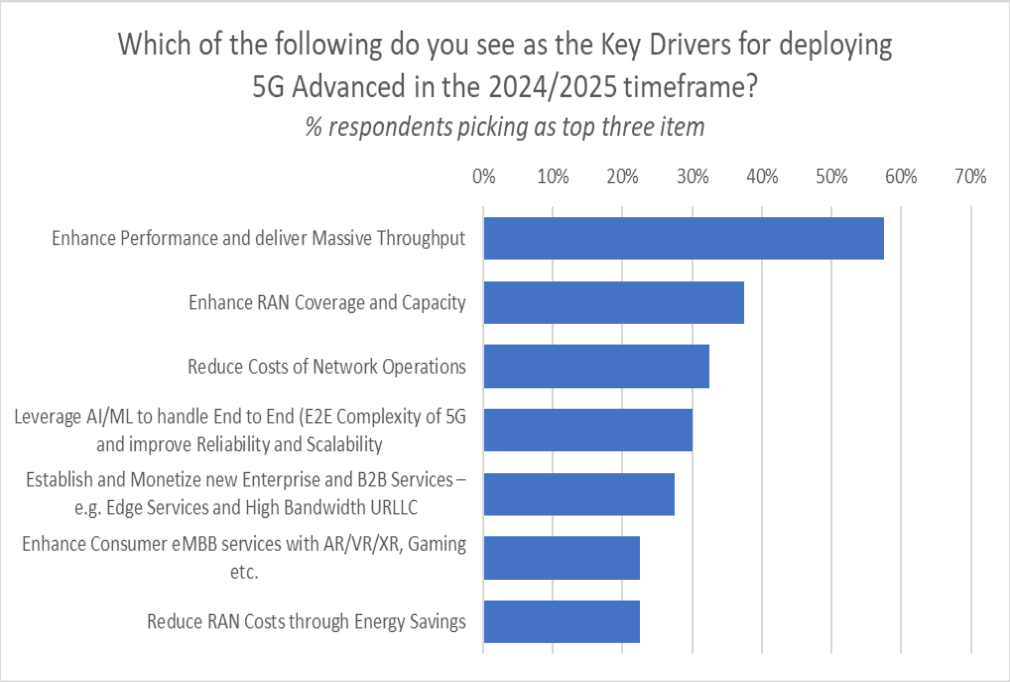


CSPs are looking at **network efficiency**, **performance** and supporting **new devices and services**

Source: OMDIA study 2023 – combined CSP and Vendor view

5G-SA Advanced deployment drivers

Performance, Efficiency & Enterprise



Source: Strategy Analytics Survey commissioned by Nokia

On the consumer side 5G-Advanced is seen primarily as improving **performance** and **network efficiency**

Enterprise is the focus for new revenues in the mid/long term

© 2023 Nokia | Confidential

5G-Advanced will increase 5G experience, operability and use cases

Experience	Operability	Use-cases
XR traffic, latency and mobility	AI/ML Enhancements	IoT Optimized RedCap
Uplink performance boost	RAN Energy Efficiency	Uncrewed Aerial Vehicle
		Non-Terrestrial Networks

© 2023 Nokia

“CSPs need a return on their substantial investment in 5G and the valuable properties they are building into their cloud-native networks. It is expensive to build feature-rich 5G and 5G advanced networks…”

analysys mason February 2023

Driving value from telecoms networks beyond CPaaS: the opportunity to revolutionize application delivery

© 2023 Nokia

The course of action:

Transforming to capitalize on the new capabilities

Transformational

Consumability
Exposure and consumption of technology (generated data, network functions) via well defined APIs.

New Devices, Use case enablers
RedCap IoT, Device2Device sidelink relay, UAV / NTN, space-to-ground, location and sync aaS

Intent-based Operations
Managing and hiding complexity with zero-touch, autonomous networks and holistic network slicing

XR / AR and the EDGE
Metaverse baseline for consumers, enterprises and industry – realized with efficiently located network functions

Foundational

Security
Foundational to critical networks

Semiconductor
System-on-Chip combined with own AI/ML and own SW is key for differentiating performance

Sustainability
Green networks, maximizing handprint, minimizing footprint

Innovations
Next generation mMIMO – Coverage improvements – Mobility - AI/ML “everywhere”

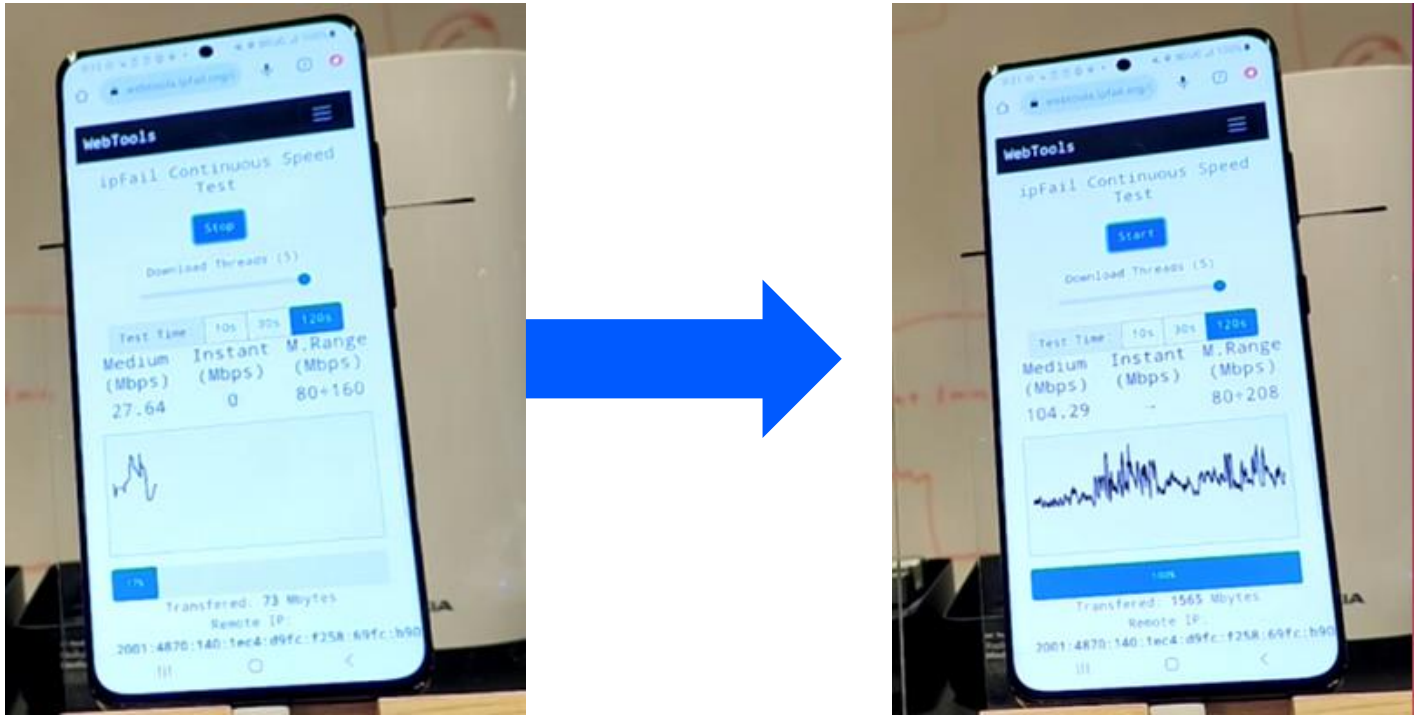
New use cases offer new opportunities

Evolve to 5G-Advanced concepts

© 2023 Nokia

Joint innovation to drive new use cases & monetization

Application-driven Network Slicing modification



© 2023 Nokia

5G-Advanced key take-aways

5G-Advanced builds on the evolution of mobile technologies delivering rich capabilities → Expand the 5G foundation

Enhanced performance, lowered costs, improved energy efficiency → Cost efficiency

New ecosystems to evolve new services beyond connectivity → New use cases

© 2023 Nokia

Join us at the GSMA Programs:

OPEN GATEWAY DEVCON

Wednesday, September 27:
10:00 AM – 4:00 PM

The HUB Innovation Stage – Exhibition Hall **booth 1540**

© 2023 Nokia

NOKIA

MWC GSMA

Panel moderator

Barbara Pareglio
Senior Technical Director
GSMA

Panel members

Patrick Castagnino
Airbus

Dr Neeraj Mittal
Government of India

Mikko Jarva
Nokia

Jurrie van den Breekel
Spirent Communications

LAS VEGAS MWC GSMA | In partnership with ctia

5G FUTURES SUMMIT

SESSION 3

Unlocking a world of opportunity with Open RAN

wipro NTT docomo Radisys