



Orchestrating the 5G - Connected Future with NEC

5G is the New Reality

As of August 2020 there are **92 Live 5G Networks in 38 Countries**¹

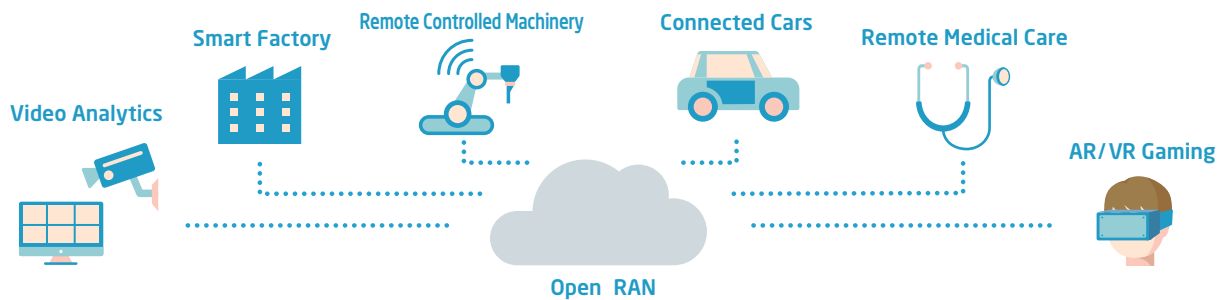
The Global Mobile Industry is Embracing Open RAN to Drive Innovation

Telcos around the world are quickly moving towards Open RAN for their 5G deployments as it allows them to avoid vendor lock-in, brings new innovation and a best-of-breed approach to different network components for the first time by sourcing multiple vendors.

Strong Industry Momentum & Support

According to Heavy Reading, 62% of CSPs believe that Open RAN will be critical or important over the next 2 years²

There are now 22 confirmed global Open RAN deployments representing 1.2bn potential subscribers³



Challenges for Communication Service Providers (CSPs)

The 5G era will require CSPs to innovate across the entire service ecosystem. Key challenges to overcome include:

1

Accommodating increased traffic demand due to more connected devices and new usage patterns.

By 2025 5G smartphone users are expected to consume 100GB per month⁴

2

Delivering more value to end users by improving user experience.

71% of manufacturers are willing to pay more for 5G connectivity⁵

3

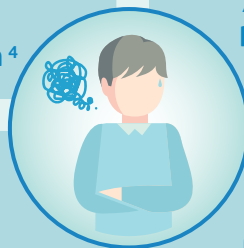
Creating new business models and revenue streams.

eMBB, FWA & XR are viewed as key new and improved 5G services⁶

4

Efficiently replacing and upgrading legacy networks.

CSPs will invest US\$858bn in 5G networks by 2025⁷



1 <https://gsacom.com/technology/5g/> 2 https://www.lightreading.com/lg_redirect.asp?pid=lgid_docid=758034

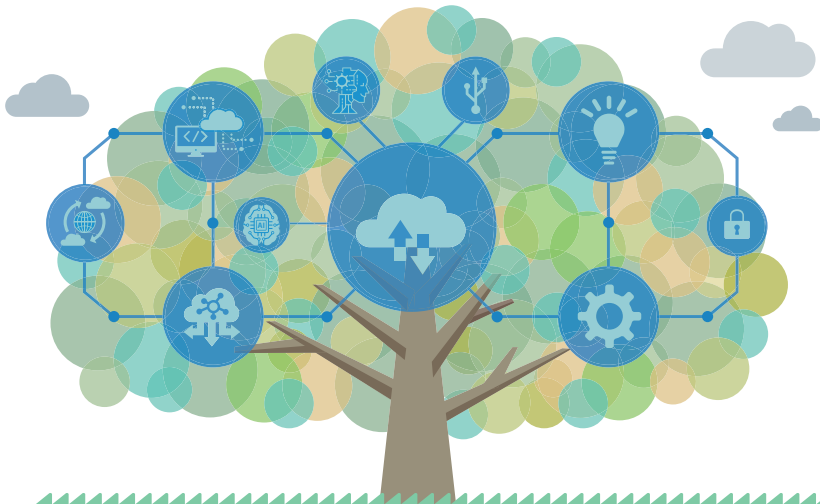
3 <https://www.businesswire.com/news/home/20200220005795/en/O-RAN-Alliance-Continues-Grow-Global-Operators-Suppliers>

4 <https://5g.co.uk/news/video-streaming-and-faster-5g-speeds-data-usage-surge/4274/> 5 <https://inform.tmforum.org/research-reports/5g-future-targeting-the-enterprise/>

6 <https://inform.tmforum.org/research-reports/5g-future-business-models-for-monetization/>

7 https://www.gsma.com/mobileeconomy/wp-content/uploads/2020/03/GSMA_MobileEconomy2020_Global.pdf

NEC's 5G Vision – An Open Ecosystem Approach



NEC takes an "Open Ecosystem" approach to 5G network deployments, offering end-to-end solutions via our partners' best-of-breed components for 5G Standalone service.

5G Standalone architecture unlocks the full potential of 5G by enabling massive Machine Type Communication, Ultra Reliable Low Latency Communications and enhanced Mobile Broadband as an extension of 4G LTE technology.

Why NEC ?

NEC can deliver end-to-end 5G network solutions via our open ecosystem. Our CSP customers benefit from our global ICT expertise and experience in the following areas

NEC's Competencies

An open ecosystem approach with a diversified and trusted supply chain

Open RAN architecture to increase the flexibility of deployment scenarios and simplified operations

SI capabilities to orchestrate and reduce integration complexity with multi-vendor components

Customer Benefits



Diversified supply chain & no vendor lock-in



Flexible network design, deployment and operation



Innovate the user experience



Reduced time-to-market

NEC. Your Trusted Partner in 5G



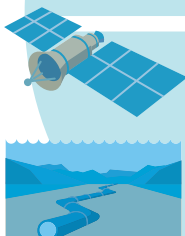
IT and network expertise in virtualization technology & networking



Radio Unit and IOT interoperability testing skills



Strong global footprint with leading CSPs



A wide range of business deployment expertise with advanced technologies spanning from submarine cables to satellite systems far beyond the capabilities of most network vendors



Deep experience in the telecom industry via deployments for Tier-1 operators such as NTT DOCOMO and Rakuten Mobile



Global partnerships with multiple industry-leading technology vendors