

2022 KEY TRENDS



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CONNECTED PEOPLE. CONNECTING PEOPLE.

CONNECTIVITY

The key trends in the Connectivity industry for 2022.



INTRODUCTION

As we enter 2022, we have collated the key trends in the Connectivity space for the year ahead.

We're thrilled to have been able to collaborate on this ebook with some of the brightest minds in Connectivity.

The trends include improved automation operations for networks, private 5G networks, and more consumer demand for connectivity.

We are humbled to have been joined by experts and leaders from A5G Networks, Dish Networks, Casa Systems and Benetel to name a few.

Thank you to all our guest contributors, and we hope you find the insights in this ebook valuable for you and your teams.

All the best,

neuco's Conectivity team



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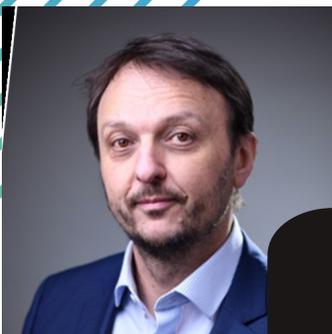
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OPEN RAN ARCHITECTURE

We think in 2022 we're going to see the rise of Open RAN, with companies already making the technology a business priority for 2022.

We're likely to see companies turning their eyes to urban open RAN in 2022 which will be more complex to execute but will help to improve functionality and efficiency going forward.

This technology will bring with it a broader pool of hardware support, the benefits of AI, machine learning and automation.



VIRTYT KOSHI

SVP AND GM EMEA, MAVENIR

The biggest trends for 2022 will be Open RAN, hands down.

It is the number 1 deployment, number 2 large businesses being deployed, it will hands down have the biggest impact on the connected world next year.

IMPROVED AUTOMATION ACROSS NETWORKS

With network automation solutions currently being able to analyze data, plan and design networks, configure verification and provide insights into reports and alerts, we think we're likely to see this type of network automation continue to grow into 2022.

With major benefits including a reduction in issues, lower costs, less downtime it seems a no brainer that businesses will continue to invest. Of course, the route towards autonomous networks relies on automation, machine learning and programming with declarative intent. We look forward to seeing the rise of 'self driving' networks in 2022.



DAVID REEDER

HEAD OF TELCO SALES, KX

I'm expecting to see more fast and well-informed real-time decision making.

Whether you are looking at new, open architectures, private networks and MEC capabilities, or improved automated operations for network planning/scaling/optimization; real-time analytics is rapidly becoming a key area of focus to make better decisions

LOW LATENCY COMMUNICATION

With the rise of 5G in 2021 we're now in a position to see the rise of more low latency communications. With the potential applications of 5G URLLC being fairly endless, we think we're likely to see more smart factories, intelligent transportation, applications of URLLC in entertainment include live sporting events and even smart electricity grids.

The URLLC technology should be revolutionary in today's digital world. With this we expect to see better entertainment experiences, increase in machine productivity, remote surgeries and many more applications.



KAITKI AGARWAL

CO-FOUNDER, COO, A5G NETWORKS

5G is bringing new services based on machine to machine, user to machine communication, low latency communication, massive system capacity with a large number of devices, reliable video streaming, very high throughput.

With cryptocurrency and blockchain, there are parallel transformations happening in the fintech and trading world.

We are attempting to move some of the telco workloads to the hyperscaler clouds. We are making networks more distributed and edge-centric. In this process, we are re-architecting the networks all the way from transport to application layer. With distributed cloud computing, how we manage the edge resource, how we contain fault, how we provide network resiliency are going to be very different.

PRIVATE 5G NETWORKS

As 2021 finishes we began to see the adoption of private 5G networks. Allowing more spectrum to enterprises and meaning they don't have to share traffic with other networks in the vicinity.

Being heralded as a game changer for enterprises, especially in the manufacturers who require 5G capabilities to implement and drive applications within smart factories and IoT.

Of course, 5G offers all the benefits of lightning-fast connectivity, ultra-low latency, high security and the scalability to connect enormous amounts of sensors and devices.

We expect to see businesses looking to purchase network spectrum from governments, mobile networks and third-party providers as we move through 2022.



FRANCOIS DUCHENE

VP SALES EMEA, CASA SYSTEMS

Private 5G Network will be biggest trend for 2022. Why: Because the techno is now available and allow enterprise to realize use cases they could not before with the right Quality of service.

I would say even more acceleration as well, not just in terms of 5G but in broader connectivity. Things like e-SIM and i-SIM because who wants to keep putting in small piece of plastic in their devices. 5G definitely, operators are moving forwards to allow network slicing. Public edge computing, having application locally in different cities and also private manufacturing too. Of course, Global IoT connectivity is going to grow, everything is connected now and all of those devices need Connectivity.

OPEN RAN ECOSYSTEM

We're really excited to see the development of the Open RAN ecosystem. Bringing together specialists in niche areas, often from smaller companies, challenging the markets legacy solutions will drive innovation.



OLLI ANDERSSON

SVP AMERICAS, BENETEL

I would like to suggest Open RAN, and the disaggregation of the RAN, as the key trend for 2022.

During 2022, we will see emergence of different specialist companies for Open RAN (such as Benetel for Radio, various companies for CU/DU etc.) as well as new multi-vendor offerings to the connectivity landscape.

“Open RAN will bring with it a broader pool of hardware support, the benefits of AI, machine learning and automation.”

CONSUMER DEMAND FOR CONNECTIVITY

As we enter the 5G era, consumer data consumption is at an all-time high. We're seeing more consumers using more and more mobile data, and consuming content from their homes 'on-demand'.

With the added demands of working from home and more devices being connected providers will be ramping up their offering for all areas, including those 'disconnected' rural areas.

With consumer demand for data continuing to sky rocket we'll see more providers leaning on offerings over the 5G network as well as building in fibre-based offerings for those hard-to-reach places.



BRIAN MENGWASSER

VP, HEAD OF MARKETPLACE AND APP DESIGN,
DISH NETWORKS

We're going to see more devices and faster speeds createing an opportunity for new pilot projects, use cases & success stories.

Having said that, I think there is a bit of a lull. The initial pop of 5G marketing may be over in 2022, and now there will be a concerted shift of budgeting and planning activities. I think the real fruit of the 5G tree and impact is still coming a bit further out.

LOW-COST RURAL CONNECTIVITY

With people working from home over the last 24 months lots of businesses have thought about re locating their businesses away from the big cities. One of the issues that comes with this is connectivity, the ability to virtually meet, share data and stay connected in an always connected world.

With roll outs planned to connect these places with superfast and full-fibre broadband this could be the push we see to low-cost connectivity and then a relocation of businesses to rural areas.



PATRICK DRAVET

VP SALES – EMEA AND LATAM, CURVALUX

Internet access at home, for work, studying or entertainment has demonstrated being a universal MUST during Covid times.

In the post Covid times, that connectivity need will continue to be under sustained high demand in towns, suburbs, smaller towns, villages and rural areas in developed and developing countries.

In numerous cases FTTH programmes being massively rolled out by service providers, will need a combined solution for the last mile with wireless technology to ensure a faster time to market and reach quickly more customers on a more economical way.

And there we have it, our view on the key trends in the Connectivity industry for 2022.

We'd love to get your thoughts on these trends, and if there are any others we've missed, get in touch with us using the details below.

All the best,

neuco's Connectivity team

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