

Mobile & Wireless Roundup #43 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 43rd edition of this newsletter. Over the last couple of months I have been talking to many small companies that are doing something or the other in private networks. Having run a [workshop](#) on the topic back in 2020, just before the pandemic, I am pleasantly surprised at how popular private 4G/5G networks are becoming.

To some extent this popularity is also due to the fact that regulators in many countries have reserved a chunk of spectrum for these private networks. Therefore encouraging vendors to create products tailored to this and integrators to bring together and provide solutions using these bands. In the US, CBRS band has been the catalyst for an interest in and uptake of Private Networks.

As 5G hasn't brought the promised returns for the industry (operators mainly), one of the new narratives being peddled is that 5G was designed for industries, not consumers. As someone who has been attending 5G conferences since 2014, I can confidently tell you this is only partially true. The URLLC and mMTC part of 5G was targeted at industries but the eMBB part was always targeted for consumers. Anyone who insists otherwise is trying to explain the 5G disappointment in an overly simplistic manner. Let's leave this for another day.

For those of you who don't know me, I am a technologist with over 24 years' experience in mobile wireless technology, currently working as an independent advisor, analyst, consultant and a trainer. This newsletter is a summary of my posts and others news that caught my attention since the last newsletter.

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🕒 6G

- Free 6G Training: MediaTek 6G Satellite and Terrestrial Network Convergence Technology White Paper ([link](#))
- Forbes: Big 5G Event 2023 Focuses On 6G & Open RAN ([link](#))

🕒 5G

- Ultra Reliability: 5x9s (99.999%) in 3GPP Release-15 vs 6x9s (99.9999%) in 3GPP Release-16 ([link](#))
- Light Reading: Why Indian telcos are building 5G at breakneck speed ([link](#))
- China Telecom and China Unicom 5G Network Co-Construction and Sharing Guide Whitepaper ([link](#))
- Light Reading: Asian operators have moved on from 5G ([link](#))

🕒 4G/LTE

- Operator Watch Blog: Little Appetite for 5G in Burundi with 4G/LTE Continuing Gaining Ground ([link](#))

🕒 Open & Disaggregated Networks (including Open RAN, vRAN, etc.)

- ITU Journal on Future and Evolving Technologies: Towards autonomous open radio access networks ([link](#))

🕒 Spectrum

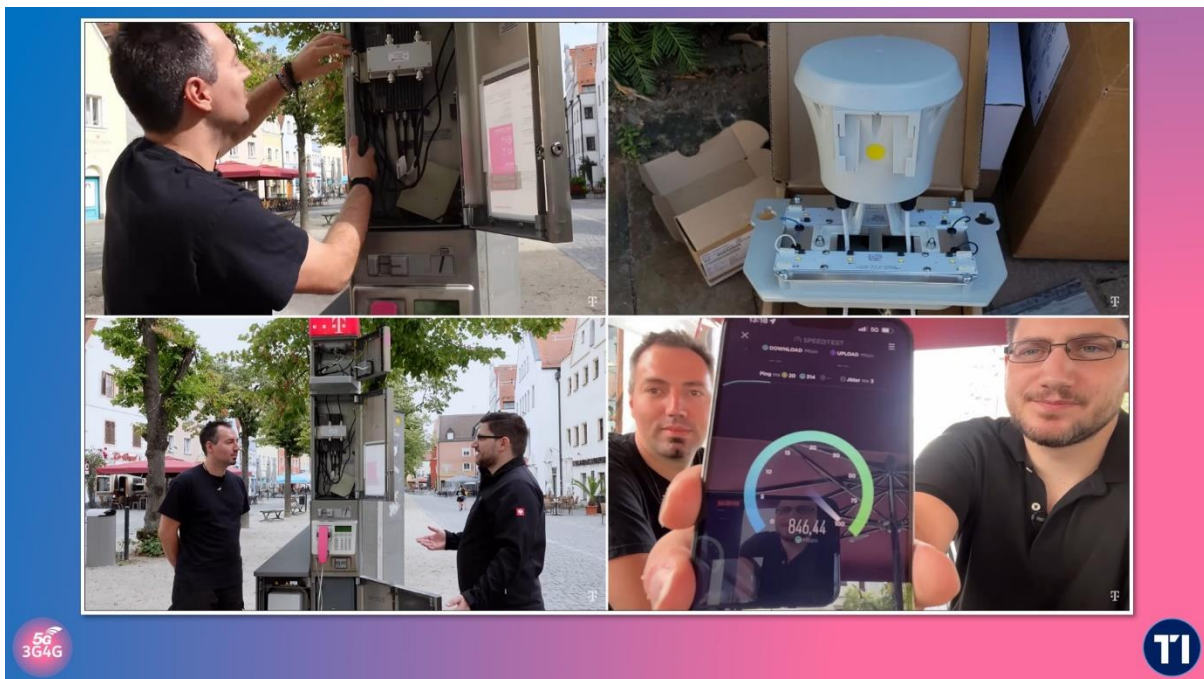
- Sony and Mitsui Participate in System Feasibility Testing of Dynamic Spectrum Access Technology for Local/Private 5G Deployment in Metropolitan Expressways in Japan ([link](#))

🕒 Private Networks

- Lotte World (Korea's largest amusement park) Equipped with P5G for Immersive Parallel Reality Experience ([link](#))

🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- Telecoms Infrastructure Blog: Deutsche Telekom 5G Small Cells in Phone Boxes ([link](#))



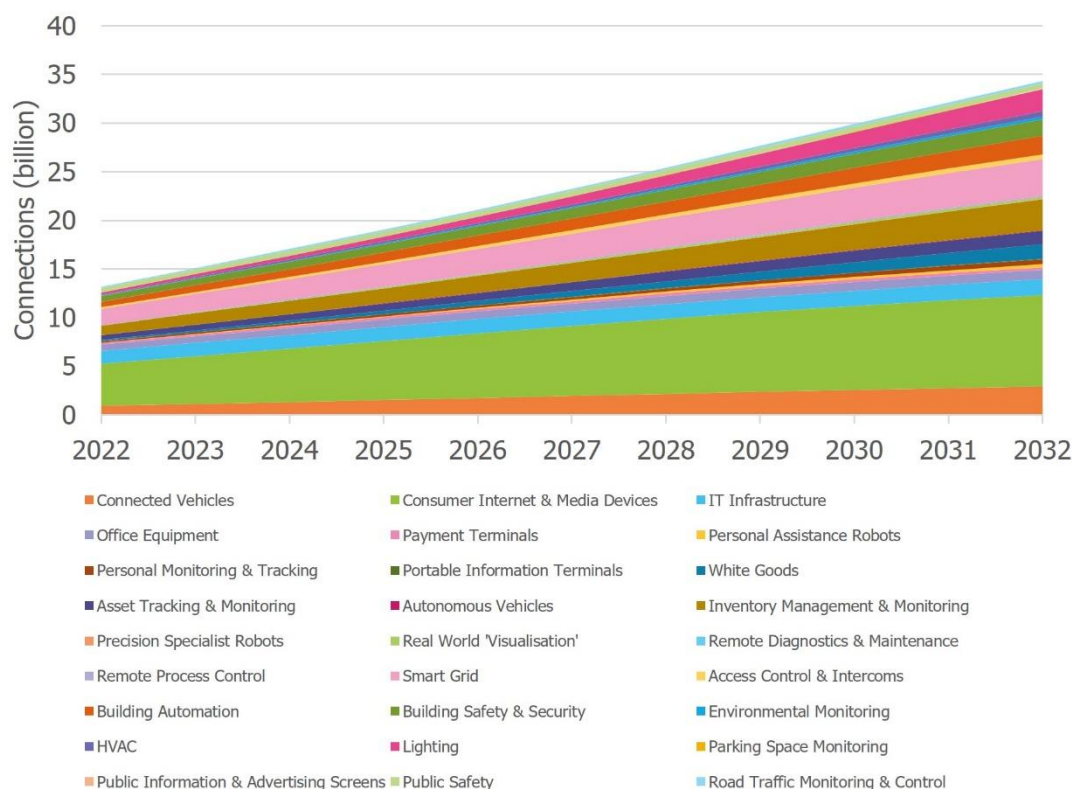
- Small cell design—Does it fit? Nice explainer by CommScope looking at it on three critical levels; Physically, Thermally and Structurally ([link](#))

🕒 IoT / M2M / Smart Homes

- TransformInsights on Twitter: “No hockey-sticks here. IoT will see steady growth over the next 10 years from 13bn to 34bn. Join us for our webinar exploring our ultra-granular IoT market forecasts on 25th May. Register here: <https://transformainsights.com/events/webinar-iot-forecasts-2023> #IoT #InternetofThings #webinar” ([Tweet](#) with photo)

Global IoT connections by Use Case, 2022-2032

[Source: Transforma Insights IoT Forecasts, 2023]



🔒 Security & Privacy

- The Independent, UK: Nearly half of all internet traffic is now bots, study reveals ([link](#))

📱 Smartphones, Devices, Wearables & Gadgets

- Notebook Check: Caterpillar CAT S75 review - Outdoor smartphone with satellite communication and underwater camera ([link](#))
- Samir Khazaka on Twitter: "Apple contributes almost half of total Qualcomm licensing revenues, 49%. Apple contributes 16% of total Qualcomm chip revenues..." (Twitter [thread](#))

🤖 AI, ML & Automation

- Artificial Intelligence in 3GPP 5G-Advanced: A Survey by Xingqin Lin, NVIDIA ([link](#))

📶 Wi-Fi

- MWL: Singapore to allocate 6GHz to Wi-Fi ([link](#))
- The Verge: How to hardwire your home without ethernet in the walls ([link](#))

🌱 Sustainability

- Light Reading: 6G sustainability focus shifting from energy efficiency to net zero ([link](#))
- Financial Times - Europe's Climate Leaders 2023: interactive listing ([link](#))

📰 Other News and Technology Stuff

- TelecomTV: UK's chip strategy is absolutely fab-less ([link](#))

📷 **Picture of the week:** MatSing Antennas on Facebook's (Meta) SuperCell Test Tower. I wrote previously about MatSing's High-Capacity RF Lens Antennas on Telecoms Infrastructure blog [here](#). EE Times has a nice little explainer [here](#).



Happy to hear your thoughts. Feel free let me know what worked, what didn't, how I can make this better, etc. Get in touch over LinkedIn!

PDF version of this and previous newsletters are available [here](#).