



Mobile & Wireless Roundup #58 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 58th edition of this newsletter. [Marrakesh](#) in Morocco is a popular tourist destination and [Jemaa el-Fnaa](#), the market place in Marrakesh's old city, has featured in many different movies. I have visited the place and so has nearly everyone I know here. It was sad to hear about the massive [earthquake](#) yesterday that has caused a great amount of death and destruction.

As you may be aware, [Release-19 workshop](#) was held in June this year. [Release-18 workshop](#) was held back in June 2021. This allowed a good amount of time between the releases to see the 5G deployment progress (which is still slow) and plan for new features accordingly.

While the industry is unanimous that the first set of 6G specifications will be coming as part of [Release-21](#), the study items will start as part of Release-20. Release-20 workshop will most likely be held at the end of 2024, though I would prefer it follows the two year cycle and is held in June 2025. This would be the first time we will hear about 6G study items.

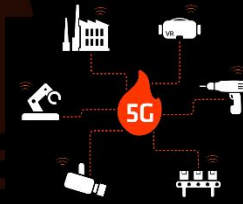
Though it may be a bit early to think about what new and exciting things 6G will bring to the table, the assumption is that the standards process will continue to follow the same beaten track with lots of evolution and little or no revolution, that will anyway not be seeing the light for a foreseeable future. Business as usual may not fix the problems within the industry but why bother today.

In the personal news department, we are [hosting an event](#) next week in Homerton College in Cambridge on 'How can rapid prototyping impact sustainability?'. It's a free event and places are still available.

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.



Private 5G Networks Made Simple



6G

- Telecom TV: SKT pushes for quantum-safe comms standards ([link](#))
- MWL: KT CEO sets 6G priorities ([link](#))
- ATIS' Next G Alliance and India's Bharat 6G Alliance Announce Memorandum of Understanding ([link](#))
- Free 6G Training: Human Augmentation Through 6G Network ([link](#))

The collage consists of four slides from a DoComO presentation:

- Slide 51: Human Augmentation through 6G NW!** A central 'Network' cloud is connected to icons for 'Ubiquitous body', 'Telepathy and telekinesis through the network', 'Experience feeling', 'Superhuman', and '6G faster than nerve impulses? Share 5-Senses through the network!'. A tagline says 'Go beyond the constraints of space and time'.
- Slide 52: Human Augmentation** A flowchart showing 'Sensing' (Myoelectricity, Replicated movement, Gripping force, Haptics, Vibration data) feeding into a 'Platform' (Human Augmentation Platform with Register, Reproduce, Interconnectivity, Database, Mapping information, Sensor data, Operational data) which then feeds into 'Applications' (Robots: Control robot, Myoelectricity, Motion sharing; Replicated movement: Learn to play instruments, Embodied knowledge; Haptic sharing).
- Slide 53: Demo of Human Augmentation @ MWC2023** Shows images of a 'Tea Whisking Robot', 'Motion Sharing (Learning instruments)' for Saxophone and Drums, and 'FEEL TECH' for Senior, Actuator, and Video and Haptics.
- Slide 55: <Human Augmentation Platform> Initiatives for upgrades** A timeline from FY 2022 to FY 2030. It shows 'Functions to share' including Emotions (Stress, Anxiety, relief, excitement, delight, anger, sorrow, pleasure), Sensations (Touch, Force, Taste, Smell), Muscles (Muscle Displacement, movement), and EEG. It also indicates 'Non-invasive measurement' and 'Service Simplification'.

5G

- Ookla Insights Article: South Korea's 5G Performance Gap Under Scrutiny ([link](#))
- Jinsung (Alex) Choi on LinkedIn: Extending 5G Network Slicing to Telco Global NaaS ([link](#))

4G/LTE

- Operator Watch Blog: Belize Mobile Operators Have Many Challenges and No Plans for 5G ([link](#))

2G/3G

- Virgin Media O2 to begin switching off 3G in 2025 with enhanced customer experience as network evolves ([link](#)) – 2G/GSM remains active until further notice
- The shutdown of Telia's 3G network will start on September 11 ([link](#) in Finnish)

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

- Telecom TV: Open RAN – still a work in progress ([link](#))
- Rimedo Labs: Anomaly detection in O-RAN: Signaling Storm ([link](#))
- Fierce Wireless: BT says no prizes yet for 'gold standard' RIC xApps ([link](#)) – A good LinkedIn discussion by Alok Tripathi on this [here](#).

🕒 Private Networks

- Private Networks Technology Blog: Belden Presentation on 'Time sensitive networks over private 5G' ([link](#))
- Private 5G (P5G) in Defense and Tactical Networks ([link](#))

🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- Fierce Wireless: Verizon rolls out 5G private MEC trailer ([link](#))
- Paul Rhodes on LinkedIn - Thursday School : Sharing is Caring ([link](#))



🕒 Virtualization, Cloud & Edge

- Network Softwarization: what is it all about? ([link](#))

🕒 Security & Privacy

- Wired: The Cheap Radio Hack That Disrupted Poland's Railway System ([link](#))

🕒 Smartphones, Devices, Wearables & Gadgets

- Ars Technica: Fairphone 5 sets a new standard with 8-10 years of Android support ([link](#))
- Light Reading: Huawei's coy 5G breakthrough ([link](#))

🕒 AI, ML & Automation

- ETSI releases World-First Report to Mitigate AI-Generated Deepfakes ([link](#))
- NetworkX Blog: Can telecom companies create next-gen enterprise services with AI? ([link](#))

☉ Other News and Technology Stuff

- Light Reading: China eyes \$40 billion fund to build up domestic chip production ([link](#))
- Jinsung (Alex) Choi on LinkedIn: Myriad of Control Planes ([link](#))
- The Guardian: Toyota blames factory shutdown in Japan on 'insufficient disk space' ([link](#))
- Light Reading: Indian telcos want OTTs to contribute to network costs ([link](#))

☉ **Picture of the week:** The [Red telephone box](#) in UK is often seen as a British cultural icon throughout the world. There is [also a book](#) that looks at the history and evolution of them. For the last few years one is able to [buy or adopt](#) one of these. As a result, they have not just been given a new lease of life but have also been used for all kinds of interesting things. Here is a picture of a coffee shop inside this red phone box by Ian Poole on Twitter ([link](#))



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](#).