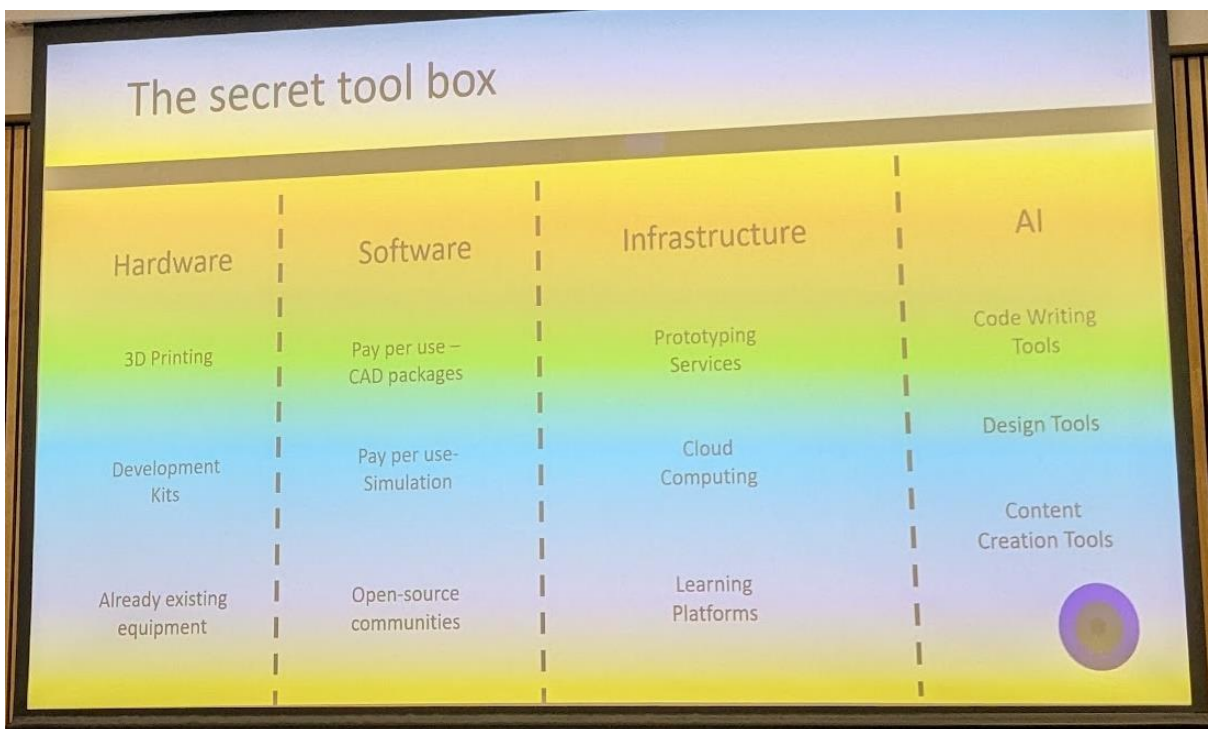


Mobile & Wireless Roundup #59 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 59th edition of this newsletter. I had a very busy week with three events. My [first event](#) was organised by CW where we looked at ‘How Can Rapid Prototyping Impact Sustainability?’. It was a great learning experience as this is not an area I am very familiar with. It was good to have SMEs as well as large established players. I guess the slide I liked best was this toolbox by [Eyesea Green](#).



The next was [CW Founder's dinner](#). A perfect place for networking and meeting with people from the UK technology industry, including telecoms. The final one was the [launch event](#) of the UK government's ONE competition. I also launched my new 5G tie 😊.

The two things that I am consistently seeing companies trying to do is to improve security and sustainability. Take for example that Apple created a video on them providing a [status report](#) to Mother Nature. At the same time, they have also been forced to [move to USB-C](#) which is, whether you like it or not, a better example of sustainability.

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.



🕒 6G

- Free 6G Training: NetworldEurope Strategic Research and Innovation Agenda (SRIA) ([link](#))

🕒 5G

- ICYMI: 'A Quick Introduction to 3GPP', tutorial by 3G4G explaining 3GPP, its working, structure and providing useful pointers to explore this topic further ([link](#))
- Light Reading: Boston TV station lights up 5G broadcast field trial ([link](#))
- GSA's 3GPP Roadmap August 2023 ([link](#))

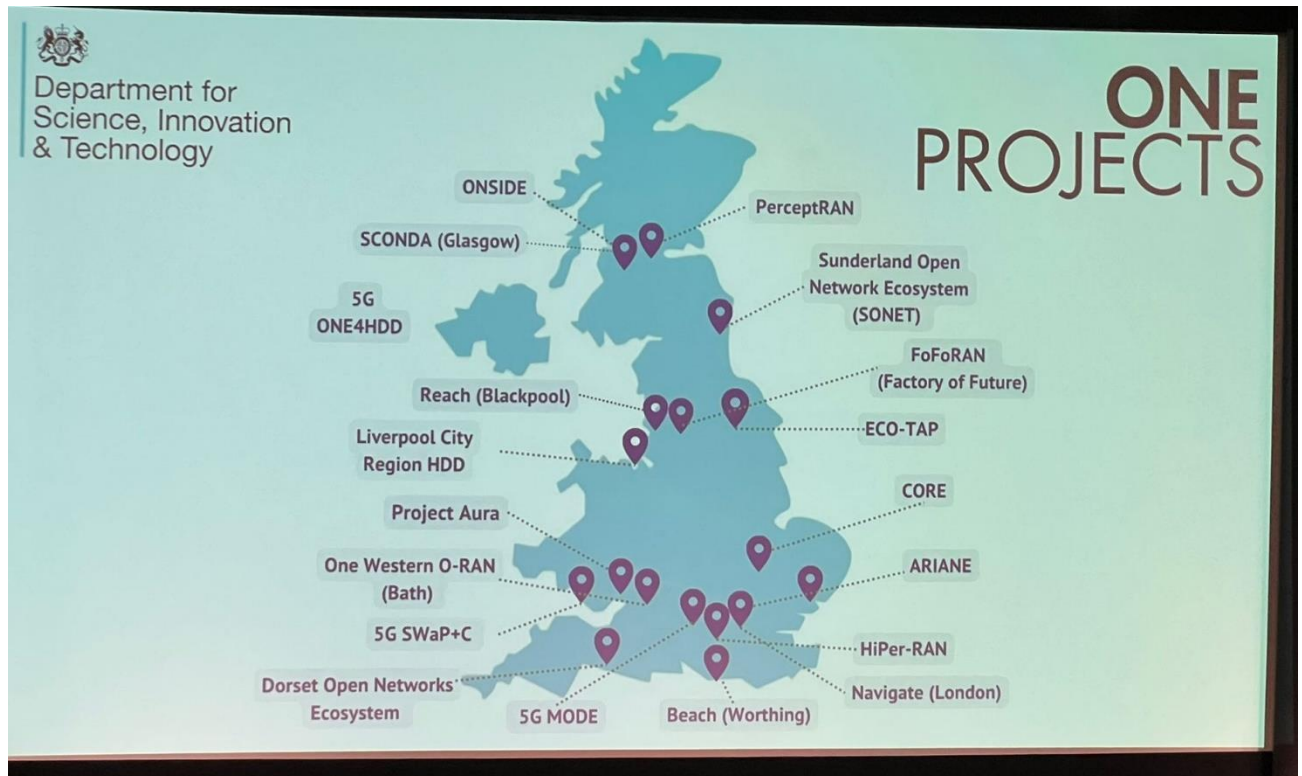
The infographic is titled '3GPP Roadmap' and shows a timeline from 2019 to 2026. It is divided into five columns representing 3GPP Releases 15 through 19. Release 15 (2019) is associated with 'The 5G System' and 'V2X Communications'. Release 16 (2020) is 'New Radio in Unlicensed Spectrum'. Release 17 (2022) includes 'Feature Enhancements' and 'New Features'. Release 18 (2023) focuses on 'Enhancing 5G Performance' and 'Flexible Spectrum Use'. Release 19 (2025) is 'Integrated Sensing and Communication'. Below the text is a timeline graphic with arrows pointing right, showing the progression from Release 15 to Release 21. The timeline is labeled with years 2019, 2020, 2022, 2023, 2025, and 2026. Below the timeline, it indicates '5G' for releases 15-17, '5G Advanced' for releases 18-19, and '6G' for releases 20-21. The GSA logo is in the bottom right corner. The footer contains the hashtag #Free5Gtraining on the left and #3G4G5G on the right.

Release	Year	Key Features
Release 15	2019	The 5G System (eMBB, Critical Comms & URLLC), V2X Communications (Wake-Up Signalling, Scheduling Request, Early Data Transmission, Relaxed Monitoring, Unacknowledged Mode, Narrowband Measurement Accuracy, NPRACH Range, Small Cell Support, Reduced System Acquisition Time, User Equipment Differentiation, Access Barring, Power Headroom Reporting), V2X Communications (Vehicle Platooning, Advanced Driving, Extended Sensors, Remote Driving)
Release 16	2020	New Radio in Unlicensed Spectrum, V2X Communications, Improved Positioning
Release 17	2022	Feature Enhancements (Massive MIMO, Coverage, Device Power Savings, Integrated Access and Backhaul, Repeaters, Dynamic Spectrum Sharing, Positioning), New Features (Reduced Capability, Non-Terrestrial Networks, Spectrum Expansion, Sidelink Expansion, Enhanced Precise Positioning, Broadcast and Multicast Expansion, Boundless Extended Reality)
Release 18	2023	Enhancing 5G Performance (Increasing Energy Efficiency, Improving Physical Random Access Channel, MIMO Evolution, Extension of Multicast Support, Improved Positioning Efficiency), Flexible Spectrum Use (Reducing Minimum Channel Bandwidth, Reducing Inter-Cell Interference)
Release 19	2025	Integrated Sensing and Communication (Ambient Power in IoT, Localised Mobile Metaverse Services, Artificial Intelligence Model Transfer, Upper Layer Traffic Steering, Switching and Split, Enhancements to Satellite Access)

- Deutsche Telekom and Partners Demonstrate Multi-Domain 5G Dynamic Slicing Orchestration for Enterprise Services ([link](#))

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

- Gov.UK: £88 million research and development boost for innovative connectivity to future proof UK mobile network ([link](#)) – project details [here](#).



- Light Reading: Intel hits out at 'mess' of using custom silicon in virtual RAN ([link](#))
- Vodafone and Keysight publish handbook to navigate the Open RAN testing maze ([link](#))
- Light Reading: The UK's open RAN plan is a joke ([link](#))
- Alok Tripathi on LinkedIn: "*Research and Development of Automated Interoperability Testing for the O-RAN Fronthaul compliance...*" ([link](#))

🕒 Spectrum

- Light Reading: Maxis conducts 6GHz spectrum trial as 5G services take off ([link](#))
- Light Reading: Samsung to test 12.7GHz-13.25GHz band with an eye toward 6G ([link](#))

🕒 Private Networks

- Private Networks Technology Blog: Europe's Largest Private 5G factory by Alcatel Submarine Networks (ASN) ([link](#))
- The 3G4G Blog: Private Networks Introductory Series ([link](#))

🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- The Kyiv Independent - Exiled mayor: Russia building cell towers in occupied Melitopol to eavesdrop on residents ([link](#))
- Paul Rhodes on LinkedIn - Thursday School : Churches Spreading the Message ([link](#))

🕒 Virtualization, Cloud & Edge

- NGMN – Cloud Native Manifesto: An Operator View ([link](#)) – Analyst James Crawshaw has some questions [here](#).

🕒 Smartphones, Devices, Wearables & Gadgets

- MWL: Apple ports USB-C into iPhone 15, updates Watch ([link](#))
- Apple Watch Series 9 Official Site ([link](#))
- MWL: France watchdog sparks iPhone 12 radiation fears ([link](#))
- Qualcomm Announces Agreement with Apple for Chip Supply of Snapdragon® 5G Modem-RF Systems for smartphone launches in 2024, 2025 and 2026 ([link](#))

🕒 AI, ML & Automation

- Benedict Evans: Generative AI and intellectual property ([link](#))
- James Crawshaw on LinkedIn: "*Vodafone just gave a presentation on its #GenAI use cases (see image), among other platforms and solutions technology news...*" ([link](#))

🕒 Metaverse & Extended Reality (XR)

- The -Byte: Facebook's VR Headset Not Selling, Literally Giving It Away ([link](#))

🕒 Sustainability

- Rudolf van der Berg on LinkedIn: "*Hope! #IBC2023 has given me hope and assurance that the growth in streaming of live and on demand video can be handled without an explosion in energy consumption!...*" ([link](#))

🕒 Other News and Technology Stuff

- Benedict Evans: When tech says 'no' ([link](#))
- The Register: BT dips toe into liquid cooling in quest for a chill network ([link](#))
- The Indian Express: Frequent 'severe' wireless emergency alerts puzzle phone users in India ([link](#))
- MWL: Arm IPO to rake in almost \$4.9B ([link](#))
- GSMA: China Mobile's Making Voice Calls More Engaging ([link](#))

🕒 **Picture of the week:** In the last newsletter we looked at the Red Phone Box being used as a coffee shop. In this one, we look at a Museum inside the Red Phone Box. This is what the [official website](#) says, "Warley Town, a historic village in the Calder Valley, sits on the outskirts of Halifax, West Yorkshire. In the spring of 2016 Warley Community Association (WCA) 'adopted' the disused BT telephone box as part of British Telecom's 'Adopt a Kiosk' programme."

There are some fantastic pictures shared on Twitter [here](#) and [here](#). The one below is from Florida Association of Museums [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](#).