



## Mobile & Wireless Roundup #96 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 96th edition of this newsletter. "Are we there yet?" is a common phrase used in English speaking countries to express impatience or eagerness to reach a destination. It is most often associated with children during long car rides, who repeatedly ask this question to their parents to find out if they have arrived at the destination. Surely there is an equivalent in every language and culture.

I recently came across former colleagues who would have been too shy to say anything on LinkedIn, especially about the fact that they are looking for a job. In fact I used to often think some jobs are recession proof but looks like it was just wrong assumption on my part. People in many different areas in our industry are losing jobs and are not able to find another one easily.

In one of our [older videos](#) (nearly six and half years ago) we explained the flow of money in the mobile industry. Surely many of the readers of this newsletter may think the flow is obvious but you will be surprised how many people I have had a discussion with on this topic who don't necessarily understand it.


The bottom line of the video was that nearly everyone in our industry gets paid directly or indirectly by the mobile operator. If they reduce their spending than we are all in trouble. This does happen every ten years or so once the current 'G' matures and the next 'G' is not ready. I explained this also in an [earlier newsletter](#) with regards to what happened during 4G/5G and how the same is happening with 5G/6G.

So as I read various news on how the predicted traffic growth over the years have failed to materialise and how the future data traffic growth will be far less than what was expected some years ago; or the one where operators are optimistic that network automation is mature enough to reduce the number of people required to maintain it; or the one where networks have realised that

they can maintain the network to the current standard and even improve it by spending far less Capex/Opex; they all scare me about the shape of things to come.


We still have around six years before any meaningful 6G will get deployed. I wonder just how many people in our industry will take an early retirement, or move domains, or go on to do something completely different (I have colleagues who have become taxi driver, HGV driver, artist, museum curator, etc.). Losing people not only means losing experience but also losing the knowledge of why something didn't work, at least the way it was expected to, which would require the next generation to reinvent some wheels.

For those of you who don't know me, I am a technologist with over 25 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 other news that caught my attention since the last newsletter.



**New White Paper**  
**Private** wireless networks for **Industry, Logistics and Process Automation**; alternative network options for **Enterprises and Criteria for Deployment**

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- Free 6G Training: ATIS' NGA Highlights 6G Radio Technologies in Whitepapers ([link](#))

## ATIS' Next G Alliance (NGA) 6G Radio Technology Whitepapers

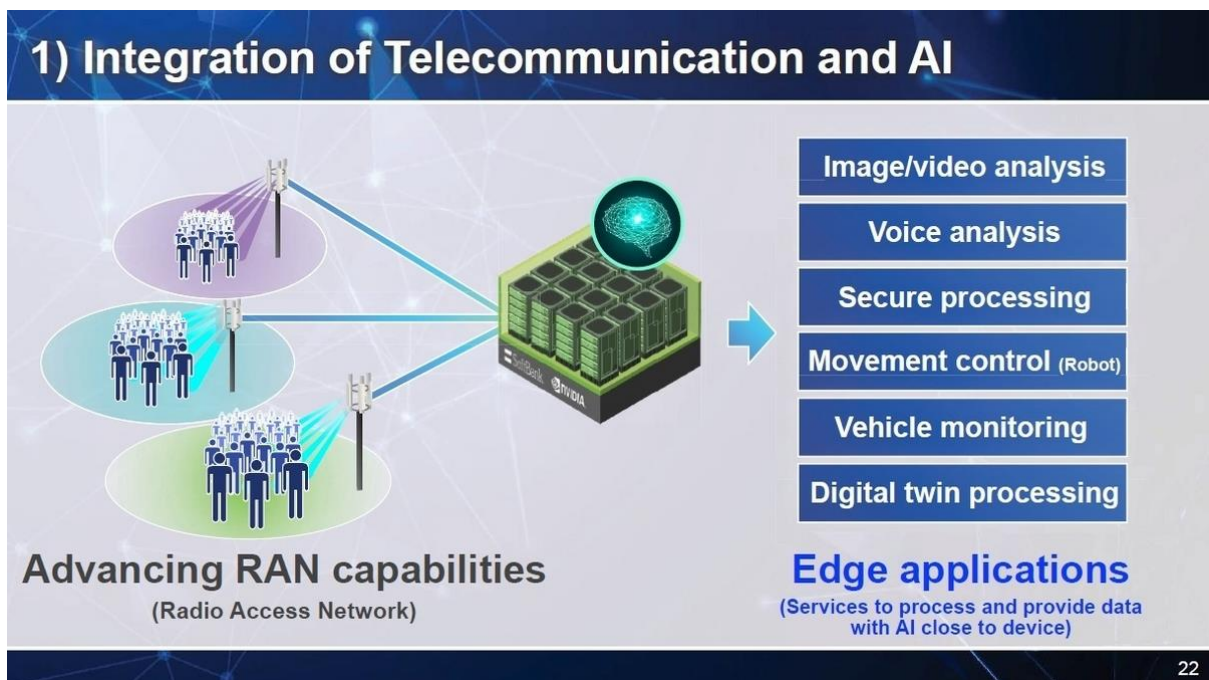
Table 1 - Mapping Between 6 Audacious Goals + New Revenue and Radio Technologies

	AI-Native Air Interface	Device Power Saving	Radio Technologies for/by AI and Distributed Cloud	Green Networks	Radio Technologies for/ by Mesh network and SL	Near Zero Energy Communications	Non-Terrestrial networks	Radio for Extreme Networking	Seamless mobility	UE Cooperative Communications
Trust, Security, and Resilience					X		X			X
Digital World Experience	X		X		X			X	X	X
Cost-Efficient Solutions		X		X	X	X				X
Distributed Cloud and Communication Systems	X		X							X
AI-Native Wireless Networks	X		X							
Sustainability		X	X	X	X	X				
New Revenue			X		X	X	X			X

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- Light Reading: SKT and Singtel prepare for 6G transition, agree to build next-gen telco networks ([link](#))
- Total Telecom: Chinese researchers launch 6G field test network ([link](#))

- 6G World: Network AI Evolution, 5G to 6G ([link](#))
- Payam Alavizadeh on LinkedIn: Gigantic MIMO (gMIMO) ([link](#))
- 2024 as the First Year of 6G: How SoftBank Corp. is Getting Ready for a New Era ([link](#))



## 🕒 5G

- ICYMI: New issue of the 3GPP Newsletter, 'HIGHLIGHTS' is now available ([link](#))
- Vodafone supports drinks service at Glastonbury through network slicing ([link](#))
- Vodafone, Qualcomm, and Xiaomi drive faster 5G speeds in latest European tests ([link](#))
- FutureNet World: Fibre roars into the fast lane as private 5G advances ([link](#))

## 🕒 4G/LTE

- MWL: Orange pushes 4G-powered PTT at Paris Olympics 2024 ([link](#))

## 🕒 2G/3G

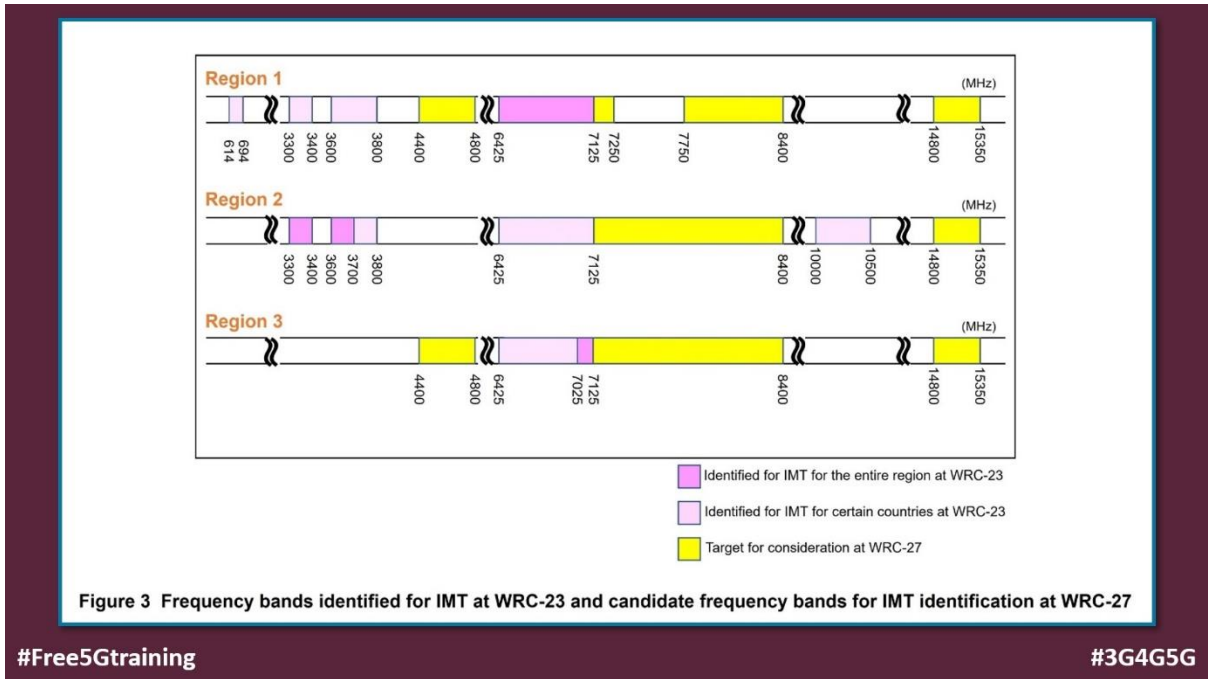
- Developing Telecoms: Vietnam's MIC issues roadmap for planned 2G cutoff in September ([link](#))
- Total Telecom: Aussie 3G switch off threatens over 200,000 devices ([link](#))

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

- Total Telecom: Deutsche Telekom CTO Abdurazak Mudesir takes over as chair of O-RAN Alliance ([link](#))
- Light Reading: Telco open RAN 'accelerator' wish list is from cloud cuckoo land - Operators want full hardware and software independence and the ability to migrate seamlessly from lookaside to inline. Good luck with that. ([link](#))

## 🕒 Spectrum

- Report on ITU Radiocommunication Assembly 2023 (RA-23) and World Radiocommunication Conference 2023 (WRC-23) from NTT Docomo Technical Journal ([link](#))



Private Networks

- Private Networks Technology Blog: Port of Tyne's 4G/5G Private Network ([link](#))
- RCR Wireless: AT&T, T-Mo, Verizon; Audi, Ford, GM – five cases of 5G driving the auto industry ([link](#))

Telecoms Infrastructure, Small Cells, Antennas & others

- Paul Rhodes on LinkedIn - Thursday School: Rise and Meet Expectations! ([link](#))
- NTT Technical Review: Latest Trends in Open Optical Transmission Equipment in TIP OOPT ([link](#))
- Paul Rhodes on LinkedIn - Thursday School: Rise and Meet Expectations 2! ([link](#))
- NTT Technical Review: Research and Development of 1.6-Tbit/s-class Ethernet Optical Transmission Technology Supporting Large-scale Datacenter Networks ([link](#))

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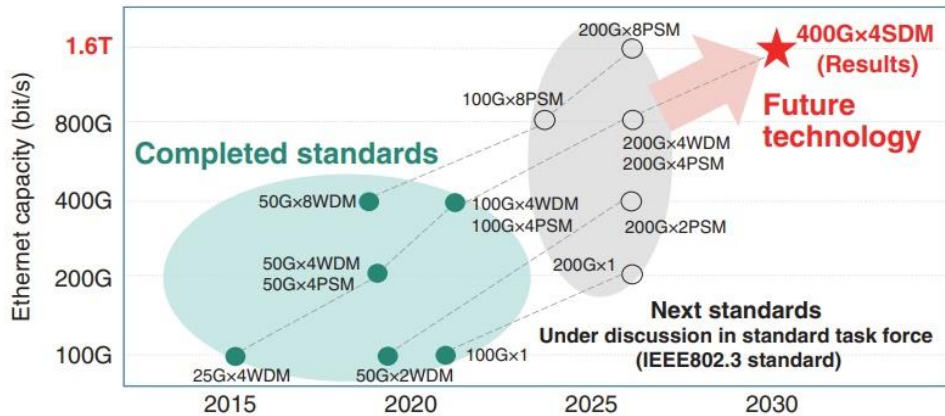


Fig. 1. Trends in Ethernet standard standardization and positioning of results.

## 🕒 IoT / M2M / Smart Homes

- Nick Jones on LinkedIn: "As we're seeing more NB-IoT traffic in 3GPP networks, I figured I'd do a deep dive into the packet flows for a #NIDD attach for NB-IoT to look at how the packets flow, and how it's different from a regular "wideband" S1 attach in #LTE and the Packet Core." ([link](#))
- RCR Wireless: Korean carriers partner to boost domestic 5G IoT ecosystem ([link](#))
- RCR Wireless: ENGIE taps BICS to connect 50,000 EU EV charging stations to cellular IoT ([link](#))

## 🕒 Security & Privacy

- AI & Security in the Network 2024 | How does AI in the network translate into better CX? - Franciso José Montalvo Abiol, Chief Data Officer, Telefónica ([video](#))
- AI & Security in the Network 2024 | New standards and challenges in telecom cybersecurity regulation - Patrick Donegan, Founder & Principal Analyst, Harden Stance Consultancy ([video](#))
- Silke Holtmanns on LinkedIn: "AT&T had a data hack. According (to the sparse) information it seems a third party cloud platform was the root cause: "finding unlawful access on an AT&T workspace on a third-party cloud platform which compromised the data of nearly all its wireless customers and those of MNVOs using its network. The breach included AT&T landline customers who interacted with the impacted mobile numbers."... " ([link](#)) – CNN article [here](#).

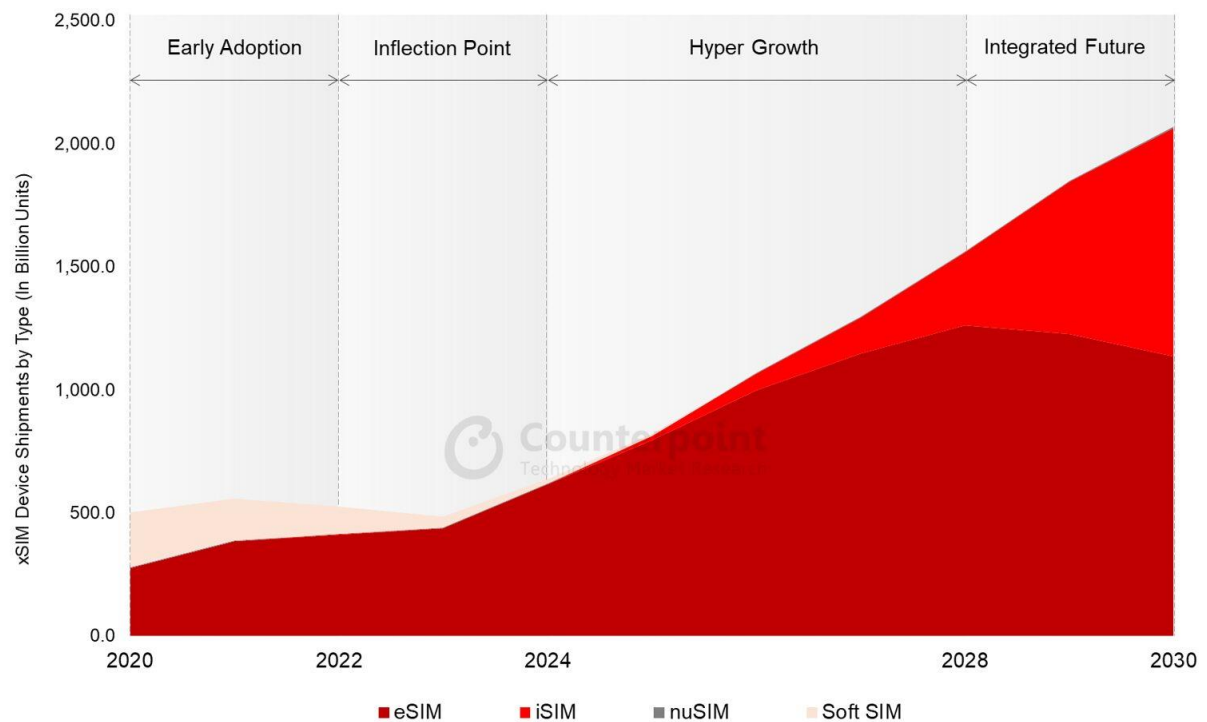
## 🕒 AI, ML & Automation

- Telecom Infra Project: Introducing our newest project group, TelcoAI! ([link](#))
- Eugina Jordan on LinkedIn: "Goldman Sachs has just released a very good report on Generative AI with some realistic findings. Here's a deep dive into the key takeaways that could redefine our economic landscape..." ([link](#))
- Deutsche Telekom on the Role of AI in their Network ([link](#))
- MWL: Apple, Microsoft spurn board positions at OpenAI ([link](#))
- Telecom TV: Italy's Fastweb fires up its AI factory ([link](#))
- Bouygues Telecom: A space dedicated to generative artificial intelligence (AGI) ([link](#))
- MWL Feature: Should operators use AI to save or make money? ([link](#))
- Professor Shafi Ahmed on LinkedIn: "Kenza Layli has been announce Kenza Layli has been announced as the world's first Miss AI. She beat 2nd place Lalina Valina from France and 3rd place Olivia C from Portugal..." ([link](#) with video)
- TechBrew: Investors are starting to seriously fret about an AI bubble ([link](#))
- Ravi Sinha on LinkedIn: "I am delighted to share that the Next Generation Research Group, an innovative 6G research initiative led by O-RAN ALLIANCE, has just released a comprehensive research report on "Principles and Methodologies for AI/ML Testing in Next Generation Networks" ... " ([link](#))

## 🕒 Smartphones, Devices, Wearables & Gadgets

- Stuart Mitchell on LinkedIn: "thanks to Bernd Heinen for sharing this iOS screenshot today. It's fascinating to see Apple are planning to allow individual opt-in/opt-out for P2P RCS and A2P RCS (RBM) individually: a feature that incidentally isn't available on Android..." ([link](#))
- MWL: Samsung engages in fresh wearable push with Galaxy Ring ([link](#))
- Counterpoint Research: Over 9 Billion eSIM-capable Devices to be Shipped by 2030 ([link](#))

## Projected Growth of xSIM-capable Device Shipments (2020-2030)



### Virtualization, Cloud & Edge

- Telecoms Europe Business and Technology Summit 2024 by Mobile Europe Opening Keynote: Telcos' continuing journey to cloud native by Scott Petty, CTO, Vodafone ([video](#))

### Satellites, HAPS, Drones, UAVs & Space

- Dean Bublely on LinkedIn - Broadband policy and metrics: reassessing satellites' role in meeting key connectivity targets ([link](#))
- Frank Rayal on LinkedIn: "The main advantage for Globalstar is MSS spectrum; so it's independent of the mobile spectrum. Most other D2D constellations have to coordinate spectrum with MNOs and require new regulatory frameworks, like SCS and SMCS, to provide their services..." ([link](#))

### Wi-Fi

- Wireless Broadband Alliance Announces Triumphant Wi-Fi HaLow Phase Two Real-World IoT Field Trials ([link](#))

### Metaverse & Extended Reality (XR)

- MWL: Apple Vision Pro tipped for weak sales in 2024 ([link](#))

### Public Safety Networks

- The 3G4G Blog: Short Tutorial on Mission Critical Services in LTE and 5G ([link](#))
- Light Reading: Thailand's emergency cell broadcast system to launch in early 2025 ([link](#))

## 📍 Sustainability

- Operator Watch Blog: How will Green Networks Evolve: Elisa's Distributed Energy Storage (DES) Case ([link](#))

## 📍 Other News and Technology Stuff

- Tefficient: Change at the top as Growth Slows ([link](#)) – complete analysis [here](#) and discussion on LinkedIn [here](#).
- Developing Telecoms: ITU launches Africa Broadband Maps to identify connectivity gaps ([link](#))
- Farrpoint - Rural 4G Connectivity: Analysing the community benefits of mobile investment ([link](#))
- TMN: Orange going for gold at Paris Olympics ([link](#))
- ETSI Announces 1st Release of SDG OpenCAPIF Delivering a Robust, Secure, and Efficient 3GPP API Management Platform ([link](#))
- Richard Haas on LinkedIn: “The clever people at NERA have done their own mobile data traffic projections and have come to a similar conclusion to William Webb that growth will plateau in the coming years...” ([link](#))
- Rupert Wood on LinkedIn: The end of big telecoms capex ([link](#))

📍 **Picture of the week:** This week’s (funny) picture is the designer ‘Tin Foil Hat’ that can block Wi-Fi, 4G & 5G from reaching your brain 😂. Thanks to [Ed Gubbins](#) for bringing it to my attention on X. You can read the story [here](#).

Instagram

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The image shows an Instagram post from the account 'ohmniofficial'. The main visual is a silver, textured bucket hat with a wide brim. Text overlays on the hat provide details: 'blocks 99.99% of Wi-Fi, 4G & 5G from reaching your brain', '100% brain coverage', 'made with pure Copper & Nickel Faraday fabric', and 'reversible two tone design'. The hat has 'OHMNI' printed on the brim. At the bottom of the image, the website 'www.ohmni.com' and the text 'TIN FOIL HAT' are visible. The Instagram interface shows the post was made 3 weeks ago, has 1,323 likes, and was posted on June 19th. There are several comments from users like 'liseolsen\_', 'mighty.baby', and 'imgonnapetyourdog'.

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ohmniofficial The Tin Foil Hat - Protect your Brain #emf #tinfolihat #protection #silver #copper #surveillance #data  
3 w

liseolsen\_ Is there a pop up in London or somewhere? Don't ship to Norway sadly @ohmniofficial  
48 m Reply

mighty.baby @ohmniofficial can you allow Amex or PayPal payment?  
2 h Reply

imgonnapetyourdog Had it shipped to

1,323 likes  
19 June

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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](#).