

Mobile & Wireless Roundup No. 124 (see original on [LinkedIn!](#))

By Zahid Ghadialy

Welcome to the 124th edition of this newsletter. [Multiple discovery](#) – also known as simultaneous or parallel invention – posits that many scientific breakthroughs are made independently and almost simultaneously by different innovators. In layman’s terms, great minds do think [alike](#).

Consider the history of [calculus](#). Both Isaac Newton and Gottfried Wilhelm Leibniz independently developed this revolutionary field in the late 17th century, each using distinct notations and approaches. Although the infamous calculus controversy once debated who first invented calculus, the prevailing view today is that Newton and Leibniz forged ahead on separate paths. Their work was far more than a mere synthesis of earlier mathematical techniques—it was a genuine leap forward.

Closer to our own field, while Alexander Graham Bell is widely [credited](#) with inventing the telephone, contemporaries such as [Elisha Gray](#) were developing similar technologies at the same time. This debate is well documented on Wikipedia, where you can also discover the contributions of innovators like Antonio Meucci and Johann Reis. For a comprehensive list of multiple discoveries, Wikipedia offers an excellent [resource](#).

In the past, inventions often took years to develop, with painstakingly slow processes. Today, innovation happens at a breathtaking pace—with breakthroughs emerging in months, weeks, or even days. We’re already witnessing a surge in parallel inventions across various fields, which naturally fuels debates over originality and claims of copying. Ultimately, only time will tell which of these innovations will gain widespread adoption, transform lives, and stand the test of time.

Think of technology as akin to the ingredients of a gourmet dish: each element must be combined in just the right proportion to create something truly delightful. These ‘delicious dishes’—the compelling use cases—are exactly what I’m looking forward to exploring at Mobile World Congress in a couple of weeks. If you have any suggestions or ideas you think I’d enjoy, please do let me know.

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.



Are you ready for Mobile World Congress 2025?

📣 We can help you reach new and existing customers!!! 📣



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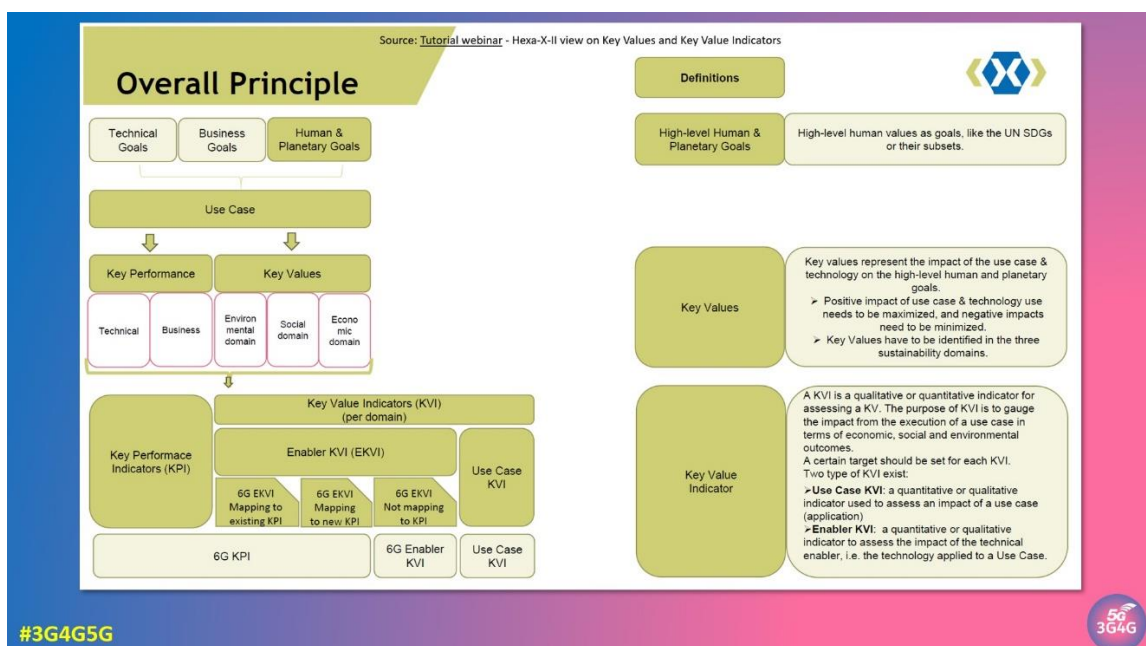


Editorials & Blog Posts

Get in touch to learn more: contact@odinews.tech

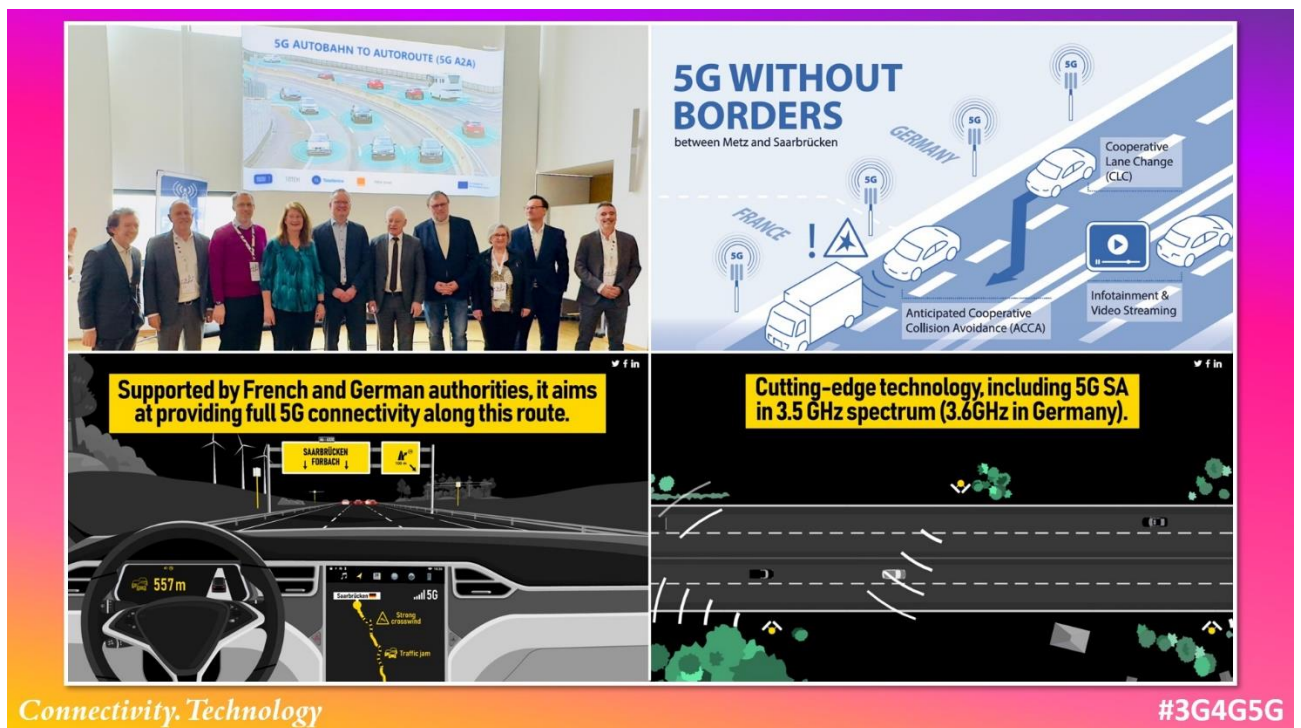
6G

- Free 6G Training: Is OFDMA Still the Best Multiple Access for 6G? ([link](#))
- IEEE Spectrum: It's Time To Rethink 6G ([link](#))
- Free 6G Training: MediaTek's View on Enabling a Healthy and User-Centric 6G Device Ecosystem ([link](#))
- Free 6G Training - Sustainable AI in Telecom: A 6G Perspective ([link](#))
- Free 6G Training: Samsung's Vision for AI-Native and Sustainable 6G ([link](#))
- The 3G4G Blog — Beyond KPIs: The Role of Key Value Indicators (KVI) in 6G ([link](#))



5G

- RCR Wireless: India achieved nationwide 5G rollout by October 2024 ([link](#))
- Operator Watch Blog - Telecom Trends in Trinidad and Tobago: Digicel and bmobile in the 5G Race ([link](#))
- 3GPP: Rel-20 Planning and Progress in TSG SA ([link](#))
- NTT Docomo Technical Journal Special Articles on 3GPP Release 18 Standardization Activities: Advanced Technologies for Network Automation and AI/ML in 3GPP Release 18 ([link](#))
- RCR Wireless - It's halftime for 5G, and Spirent is keeping score: 4 themes ([link](#)) – the report can be accessed [here](#).
- Telefónica applies 5G and Artificial Intelligence to healthcare with solutions in ophthalmology and oncology ([PR](#))
- Connectivity Technology Blog — 5G A2A: Building a Cross-Border 5G Corridor for Connected Mobility ([link](#))



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

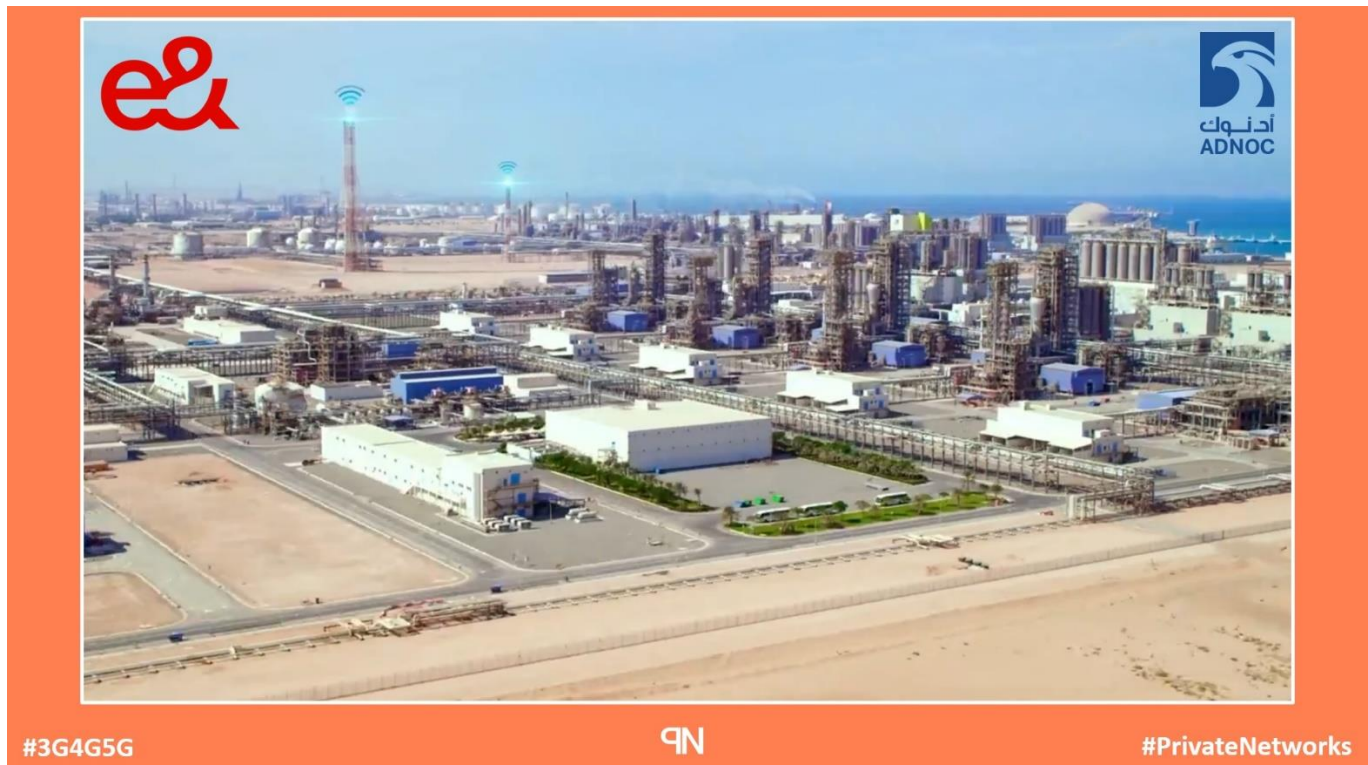
- ODIN: ATIS Open RAN MVP Update – Still No xApps For North America ([link](#))
- Ruth Brown on LinkedIn: RAN automation ecosystems and marketplaces ([link](#))
- ODIN: USAID's Closure Casts Doubt on US Open RAN Support in Asia ([link](#))
- SONIC Labs Wireless Infrastructure Industry Group: Barriers to Open RAN adoption – how can we overcome them? ([link](#))
- Paul Rhodes on LinkedIn - Thursday School: What has Open RAN Ever Done for Us?! ([link](#))
- MWL: Dell'Oro downbeat on open RAN multi-vendor vision ([link](#))

Spectrum

- Fierce Network: Is this really wireless vs. Elon Musk? ([link](#))

🕒 Private Networks

- Private Networks Technology Blog: Nokia's Private LTE Powers Bahrain's Electricity and Water Control Centre ([link](#))
- Private Networks Technology Blog: CIMBOR Embraces Private 5G to Drive Industrial Innovation ([link](#))
- Paul Rhodes on LinkedIn - Saturday School: OpenRAN Private Networks; Chicken and Egg! ([link](#))
- Private Networks Technology Blog: ADNOC and e& to Deploy the Energy Sector's Largest Private 5G Network to Power AI and Automation ([link](#))



🕒 Telecoms Infrastructure, Small Cells, Antennas & others

- Paul Rhodes on LinkedIn - Thursday School: Keeping IT Simple! ([link](#))
- Light Reading: Why Verizon hid its 5G network in the Super Bowl stadium ([link](#))
- Paul Rhodes on LinkedIn - Tuesday Thoughts: Give the Planners What they want II! ([link](#))
- Kim Kylesbech Larsen on LinkedIn: "*I really enjoyed reading "Is It Sabotage? Unraveling the Mystery of Undersea Cable Breaks"..."*" ([link](#))

🕒 IoT / M2M / Smart Homes

- Revisiting LoRaWAN - Part 2: The power of serving a million niches ([link](#))
- RCR Wireless: Wi-SUN Alliance intros device certification for IoT buyers in utilities sector ([link](#))

🕒 Virtualization, Cloud & Edge

- James Crawshaw on LinkedIn: "*I've been using the term #cloudnative for so long now, I figured it was time I learned what it meant..."*" ([link](#))

🕒 Security & Privacy

- Denis Laskov on LinkedIn: "*Hacking the Apple Watch – the communication protocol and encryption, vulnerabilities, and an online tool to decode messages...*" ([link](#))
- Marcel Rick-Cen on LinkedIn: "*Discover the hidden risks in modern power systems! Despite being a cornerstone of European telecontrol systems, the IEC 60870-5-104 protocol was designed without fundamental security mechanisms—leaving critical infrastructure exposed...*" ([link](#))
- Denis Laskov on LinkedIn: "*Cyber threats to space infrastructure: lessons from 60 years of spaceflight to your new iPhone or car. It may sound complex and costly, but it's already here...*" ([link](#))

🕒 Connected And Autonomous Vehicles (CAVs)

- Tech Brew: What's next for AV trucking company Kodiak after its first commercial deployment ([link](#))

🕒 Smartphones, Devices, Wearables & Gadgets

- Ericsson showcases 5G-enabled robotic dog Rocky at LEAP 2025 ([PR](#))



🕒 AI, ML & Automation

- Jinsung Choi on LinkedIn: Calling all AI-RAN startups! ([link](#))
- Sebastian Barros on LinkedIn: Did AI Just Kill Open RAN? ([link](#)) – good discussions
- Fujitsu: Leveraging AI-RAN to transform the future of Radio Access Networks ([link](#))
- TelecomTV: Japan's SoftBank provides AI strategy update ([link](#))
- Jinsung Choi on LinkedIn: The Progressive Evolution of AI in RAN Automation ([link](#))
- MWL: US VP Vance comes out fighting on AI threats ([link](#))
- Jinsung Choi on LinkedIn: Enhancing Telecom RAN Automation: Three Key Control Loops ([link](#))
- Politico: Britain dances to JD Vance's tune as it renames AI institute ([link](#))

☉ Satellites, HAPS, Drones, UAVs & Space

- TechCrunch: Ontario cancels \$100 million Starlink contract in protest at U.S. tariffs ([link](#))
- Tutorial Session on Current Trends and Key Challenges of Satellite communications ([link](#))

The collage consists of four presentation slides from a tutorial session on satellite communications, presented by Ricardo De Gaudenzi at the University of Parma. The slides are numbered 89, 93, 100, and 130.

- Slide 89: GSO Mobile Inmarsat Constellation**
The Inmarsat ground segment (user terminal and gateways).
Includes images of a user terminal and a gateway satellite dish.
- Slide 93: LEO OneWeb Broadband Constellation**
The OneWeb payload:
 - Simple bent-pipe transponder single polar user link and dual polar feeder link (no ISL)
 - Two Ka-band gateway feeder link steerable antennas with downlink power control
 - 16 Ku-band venetian blind fixed antenna for the user links with elliptical shape
 - Attitude control allows adjusting the satellite pointing to avoid GEO interference
 - Second generation satellite bids expected in 2023
- Slide 100: Starlink LEO Broadband Constellation**
The Starlink system architecture:
 - 32 gateways fixed in USA, unclear number worldwide
 - Make-before-break handover with two satellites active during handover phase
- Slide 130: High Throughput Satellite Network Example - Eutelsat Ka-sat**
The fixed connectivity is losing customers: the Ka-sat TX/Rx user terminal head is gone - a real case observed in Corsica mountains.
FY 2022-23 REVENUES BY APPLICATION:

REVENUE CONTRIBUTOR	REVENUE (M€)	CHANGE (%)
GOVERNMENT SERVICES	705	-0.2%
TELECOM SERVICES	943	-7.2%
INDUSTRIAL/ENTERPRISE SERVICES	112	+28.8%
RESIDENTIAL SERVICES	128	-1.1%
TOTAL OPERATING REVENUES	1,938	-4.4%
OTHER REVENUES	-8	-450%

- Ben Wood on LinkedIn: "People in the industry won't have failed to have seen all the publicity around the satellite video call made by Vodafone Group CEO Margherita Della Valle recently..." ([link](#))
- Light Reading: T-Mobile to sell SpaceX connections to AT&T, Verizon subs for \$20/month ([link](#))
- Light Reading: Where is the value in cellular satellite messaging? ([link](#))
- Frank Royal: The Disruptive Nature of Starlink ([link](#))
- Kim Kylesbech Larsen on LinkedIn: "At what capacity & capability level will LEO satellite systems seriously threaten the business model of conventional terrestrial Telco broadband infrastructures? ..." ([link](#))

☉ Wi-Fi

- Stadium Tech Report - Verizon tells customers going to Super Bowl: Don't use the stadium Wi-Fi, use Verizon 5G instead ([link](#))

☉ Sustainability

- A good summary of 5G Energy Efficiency (EE) features ([link](#))
- MWL: DT, partners make router from old smartphone parts ([link](#))

☉ Other News and Technology Stuff

- BBC: Woman's deepfake betrayal by close friend ([link](#))
- Dean Bublely on LinkedIn: "Time to point out a very big elephant in the #NetworkAPI room, and the various platforms evolving for developers to access them: what about Chinese vendors? ..." ([link](#))

📌 **Picture of the week:** According to [Wikipedia](#), Qianfan (literally Thousand Sails Constellation), officially known as the Spacesail Constellation and also referred to as G60 Starlink, is a planned Chinese low-Earth orbit satellite internet megaconstellation designed to provide global internet coverage. It was developed by Shanghai Spacecom Satellite Technology (SSST), a company backed by the Shanghai Municipal People's Government and the Chinese Academy of Sciences. Launched in 2024 as a competitor to SpaceX's Starlink constellation, the project aims to comprise over 15,000 satellites upon completion.

'bummer' (@yuchuanWang6) has shared a picture of rectangular phased array flat-panel antenna in a [X post](#) as can be seen below. If you want to learn how these antennas work, check out this blog post [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](#).