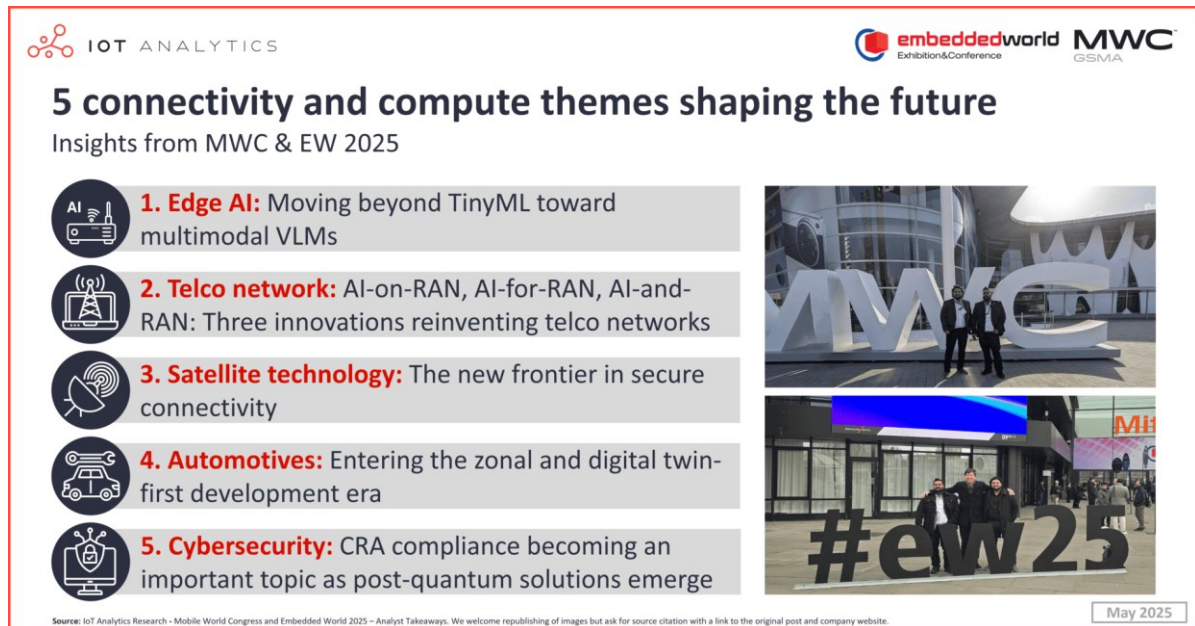


FOR IMMEDIATE RELEASE

5 connectivity and computing themes shaping the future—insights from MWC & EW 2025



5 connectivity and compute themes shaping the future
Insights from MWC & EW 2025

- 1. Edge AI:** Moving beyond TinyML toward multimodal VLMs
- 2. Telco network:** AI-on-RAN, AI-for-RAN, AI-and-RAN: Three innovations reinventing telco networks
- 3. Satellite technology:** The new frontier in secure connectivity
- 4. Automotives:** Entering the zonal and digital twin-first development era
- 5. Cybersecurity:** CRA compliance becoming an important topic as post-quantum solutions emerge

Source: IoT Analytics Research - Mobile World Congress and Embedded World 2025 – Analyst Takeaways. We welcome republishing of images but ask for source citation with a link to the original post and company website. May 2025

Hamburg, Germany – May 7, 2025 – IoT Analytics, a leading provider of market insights and competitive intelligence for the Internet of Things (IoT), AI, Cloud, Edge, and Industry 4.0, has released its analysis of key themes in connectivity and computing, based on observations from recent conferences. The findings highlight critical developments in Edge AI, telecommunications networks, satellite technology, the automotive sector, and cybersecurity. The analysis, derived from insights gathered by IoT Analytics teams at both events, identifies five central themes shaping the enterprise technology landscape:

- **Edge AI evolves with multimodal models and industrial-grade deployments:** Edge AI is entering a new era, moving beyond TinyML models to running fully-fledged multimodal large language models (LLMs) and vision-language models (VLMs) directly on industrial-grade edge devices.
- **AI transforms radio access networks (RAN) to enable low-latency applications:** RAN is emerging as a critical zone for AI-driven innovation in telecommunications. To meet growing demands for real-time

applications and to manage escalating network complexity, telecom operators are embedding AI into the RAN in three distinct ways: on, for, and with the RAN.

- **Advancements in satellite technology:** Satellite technology is increasingly recognized as an important frontier for expanding connectivity options.
- **The automotive sector is entering a transformational phase:** Vehicles are moving from distributed, domain-based architectures to zonal computing architectures—laying the foundation for fully software-defined vehicles (SDVs).
- **Cybersecurity:** CRA compliance becoming an important topic as post-quantum solutions emerge.

Further details, including key highlights, trends, and in-depth insights, are available in IoT Analytics' "[Mobile World Congress and Embedded World 2025—Analyst Takeaways](#)" event report.

Key insights:

- Mobile World Congress (MWC) 2025 and Embedded World (EW) 2025 spotlighted key telecom and embedded system trends.
- AI, connectivity advancements, future vehicle architectures, and security were central themes.
- IoT Analytics had teams on-site to track the evolution of networks, edge computing, and embedded intelligence.
- This article summarizes 5 key themes from both events. The full 101-page [MWC & EW 2025 event report](#) with numerous detailed examples is available exclusively to IoT Analytics customers.

Select analyst quotes:

Satyajit Sinha, Principal Analyst at IoT Analytics, comments that “AI agents in RAN optimization shows early signs of intelligent assistance, but full automation remains elusive. Although agents contribute operational insights, current systems still require two layers of human oversight—technical validation and business-level confirmation—before execution. This highlights the

organizational and policy-driven barriers that prevent full closed-loop automation today.”

For more information or media inquiries, please contact:

Hoang Pham Van
IoT Analytics
+49 (0) 40 6391 1891
[press\(at\)iot-analytics.com](mailto:press(at)iot-analytics.com)

For further reading please visit:

www.iot-analytics.com/research-blog

About IoT Analytics

IoT Analytics, founded and operating out of Germany, is a leading global provider of market insights and strategic business intelligence for the IoT, AI, Cloud, Edge, and Industry 4.0.

Our key workstreams across the tech stack include IoT applications, IoT platforms and software, IoT connectivity and hardware, and industrial IoT. We are trusted by 1000+ leading companies around the world for our market insights, including globally leading software, telecommunications, consulting, semiconductor, and industrial players.

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