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The 44th GTI Workshop

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AI RAN enabling a new wave of innovation

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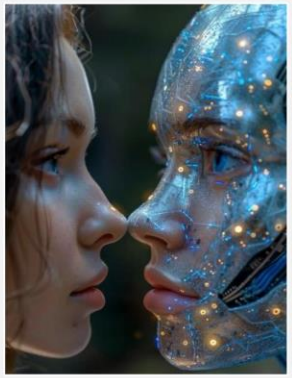
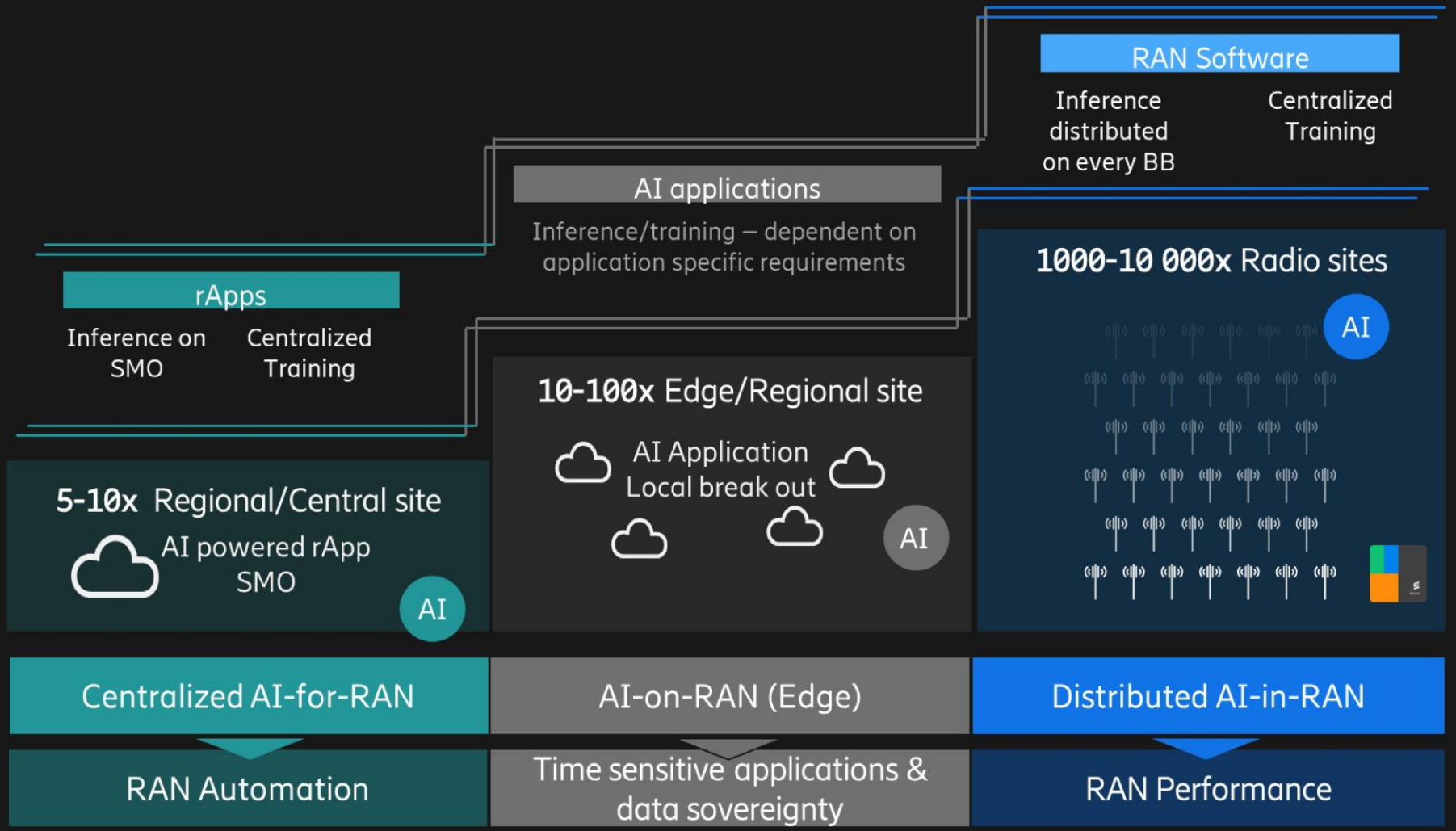
The new wave of AI innovation

AI & GenAI underpin many public indoor and outdoor use-cases

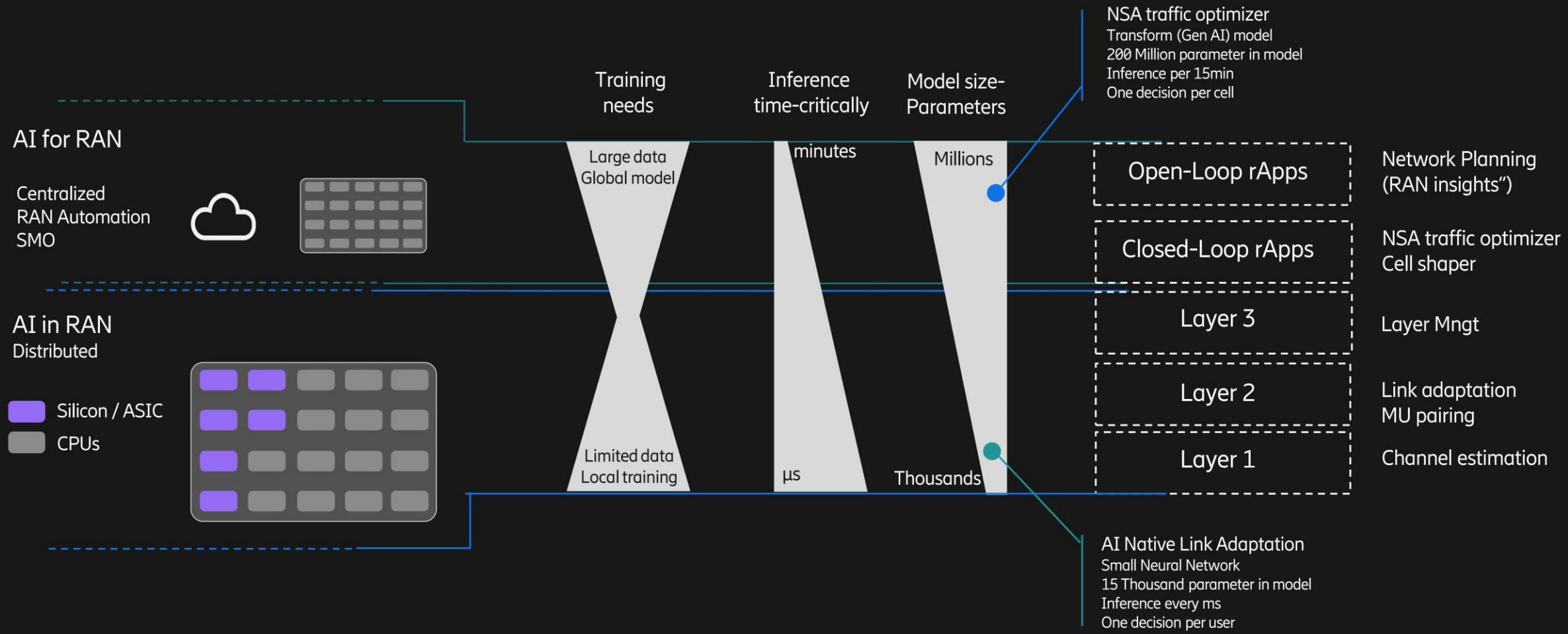
Consumer-Centric			Industry-Centric		
Smart Phone	**XR Devices**	**AI Agents**	**IoT**	**AVs**	**Droids**
					
(Gen)-AI enabled hyper-peronalized content may increase retention further.	Uplink-heavy compute offload	Uplink-heavy video/multi-modal LLMs and AI Agents / Assistants	Embedded edge-(Gen)AI capabilities emerging in IoT, such as smart cameras.	Autonomous vehicles require UL & DL telemetry	AI autonomous droids with heavy uplink

UL and DL increase: 5G SA / 5G-Advanced are required for determistic connectivity

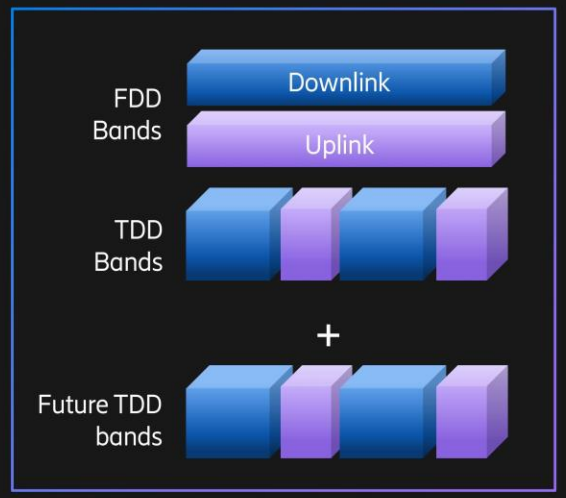
AI RAN architecture: The right model in the right place



AI embedded in every layer and Telco AI models requirements



The uplink challenge: New services and devices create new demands that require continued network enhancements



TDD bands face uplink coverage challenges

Improvement of FDD is an evident opportunity

25%

consumers expect to be using AI across multiple devices by 2030*

45%

share of time spent using AI apps outside home by 2030*

3x

Increase in uplink traffic By 2030**

* Ericsson Consumer Lab report January 2026

** Ericsson Mobility Report , Nov 2025

key takeaways

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- AI driven innovations bring new opportunities for society and industries
- AI and connectivity must evolve together; AI applications need higher uplink capacity and consistent latency.
- Uplink is the next challenge and enhanced FDD and differentiated connectivity help address AI-driven traffic growth.


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