

NVIDIA, Nokia and Leading Telecom Operators Turn Networks Into Distributed Intelligence Platforms

News Summary:

- Leading global telecom operators are expanding NVIDIA-powered computing across their networks to deliver advanced services closer to people and businesses, improve wireless experience and automate network operations.
- T-Mobile completes the world's first AI-RAN call on a commercial network, while BT, Deutsche Telekom and Elisa announce AI-RAN pilots on live networks using Nokia's CUDA-accelerated anyRAN software on NVIDIA Aerial RAN Computer, and NVIDIA introduces new Aerial RAN Computer configurations for high-capacity sites.
- Nine EMEA telecom operators are building and expanding NVIDIA-powered infrastructure across centralized and distributed locations.
- Operators and software partners are adopting NVIDIA Nemotron open models to deliver agentic services and develop agents for autonomous network operations.

GTC Berlin--NVIDIA today announced that leading global telecom operators are turning their networks into distributed intelligence platforms, adding NVIDIA accelerated computing to centralized data centers, metro sites and cell sites so they can serve models and applications closer to the people, businesses and machines that use them.

T-Mobile has completed the world's first AI-RAN call on a live network in Bellevue, Washington, with NVIDIA and Nokia. Deutsche Telekom is advancing physical AI for industries, and [Orange](#) is introducing new voice intelligence services for enterprises and emergency responders. [Elisa](#) has completed Europe's first field trial of AI-RAN, running voice, mobile data and vision AI together on a single accelerated computing platform over 5G, and [BT](#) is preparing live AI-RAN trials in the U.K. [Nokia](#) is bringing its anyRAN software on [NVIDIA Aerial RAN Computer](#) (ARC) for trials at BT, Deutsche Telekom, Elisa and Orange.

Nine operators across Europe, the Middle East and Africa (EMEA) are building or expanding NVIDIA-powered infrastructure, while Nokia and Cisco are incorporating [NVIDIA Nemotron](#)™ open models into the software operators use to run autonomous networks.

"Telecom networks were built to carry the world's conversations. Now, they will also carry the world's intelligence," said Jensen Huang, founder and CEO of NVIDIA. "Leading global operators are turning their land, power and connectivity into a distributed AI infrastructure -- bringing intelligence closer to the industries, people and robots that use it. With Nokia, we're extending accelerated computing into the radio network itself, creating the foundation for AI-native 5G."

Intelligence is built in [five layers](#): land, power and shell, chips, infrastructure, models and applications. Telecom operators already own sovereign infrastructure at the first layer, with data centers, regional sites and cell sites that have power, fiber and spectrum.

By adding NVIDIA accelerated computing, open models and applications on top, operators are building the full intelligence stack into their networks. At distributed sites, a common converged platform based on the AI-RAN architecture can serve open models, power robotics, voice and agentic applications, and run intelligent 5G software.

Europe's Leading Telcos Build Distributed Infrastructure

Infrastructure sits at the foundation of telecom's transition to distributed service platforms.

Deutsche Telekom plans to expand its NVIDIA-powered Industrial AI Cloud, which hosts open models -- including NVIDIA Nemotron and Soofi -- and serves robotics companies such as Agile Robots. At distributed sites, Deutsche Telekom is piloting AI-RAN trials with Nokia and NVIDIA, and demonstrating NVIDIA ARC to run inference between the device and the network edge.

A GTC Berlin demonstration with Agile Robots shows the approach: on-robot intelligence handles real-time perception and action, a model at the distributed edge supports fine-tuning and coordination across robots, and the central infrastructure provides capacity for larger training workloads.

Orange is hosting open models, including NVIDIA Nemotron, as a managed service on top of its Live Intelligence trusted AI platform, enabling new advanced services for enterprises. At distributed sites, Orange is deploying NVIDIA ARC for voice intelligence applications using Nemotron Speech, demonstrating new services to help emergency and field services teams translate across multiple languages in real time with low latency and reliability.

Elisa has deployed NVIDIA ARC at a distributed network location, running a voice intelligence application that serves as an enterprise assistant, and is using open models to build edge applications.

EMEA telcos are building or expanding NVIDIA-powered infrastructure:

- **New infrastructure:** CRA in the Czech Republic, [etisalat](#) in the United Arab Emirates, [Silknet](#) in Georgia and [TIM](#) in Italy.
- **Expansions:** [Cassava](#) in Africa, Deutsche Telekom in Germany, [Fastweb + Vodafone](#) in Italy, Kazakhtelecom in Central Asia and [Orion Telecom](#) in Serbia.

AI-RAN Brings Accelerated Computing Into the Radio Network

AI-RAN extends accelerated computing into the radio access network (RAN), turning it into an intelligence workload that runs on the same platform as advanced services, so operators can get more out of their spectrum while serving demand from sites close to users.

Globally, nearly 20 telecom operators have publicly announced AI-RAN collaborations using Nokia anyRAN software and NVIDIA ARC.

- T-Mobile recently marked the world's first AI-RAN call on its commercial network in Bellevue, Washington, running on commercial ARC servers, Nokia's NVIDIA CUDA-accelerated RAN software and massive multiple-input multiple-output radios, and connected to an existing 5G Standalone core and a commercial smartphone.
- BT is planning live AI-RAN trials in Birmingham, England, with Nokia and NVIDIA in 2027.
- Deutsche Telekom has validated Nokia and NVIDIA's commercial AI-RAN platform in Bonn and Oulu labs, including AI-enhanced uplink channel estimation to improve uplink user throughput, with plans to move to field trials in 2027.
- Elisa simultaneously ran voice, mobile data and video analytics on the NVIDIA ARC platform, marking a European first in Elisa's over-the-air field environment using 5G spectrum. The trial clears the way for distributed deployment and commercial AI-RAN services in 2027.
- Orange is testing Nokia 5G software on NVIDIA ARC, focusing on AI-RAN spectral efficiency improvements and support for edge services in live networks.

NVIDIA is introducing two ARC configurations -- MGX 2U and MGX 4U -- designed for dense, high-capacity intelligence and radio workloads, typically deployed at centralized RAN sites. Powered by [NVIDIA RTX PRO™ 6000 Blackwell Server Edition GPUs](#), the configurations will offer x86 and [NVIDIA Vera CPU](#) options. [Dell Technologies](#), [Quanta Cloud Technology](#) and [Supermicro](#) will offer ARC-ready servers.

Open Models Power Autonomous Network Operations

Leading telcos are using open models and agents to speed progress toward fully autonomous network operations. NVIDIA Nemotron open models and NVIDIA Agent Toolkit software are now integrated into leading partners' commercial software, powering specialized agents built for telecom network workflows.

Nokia is integrating NVIDIA Nemotron into its Autonomous Networks Suite and using NVIDIA Agent Toolkit software to build and deploy trusted agents that manage operations across fixed, radio, core and transport networks.

Cisco has fine-tuned NVIDIA Nemotron models and integrated them into Crosswork AI, creating a common agentic layer across its Crosswork Network Automation software to manage IP and optical transport networks. The company is also using NVIDIA Agent Toolkit to help telcos operate agents safely.

TCS is working with telcos to fine-tune NVIDIA Nemotron models and use NVIDIA Agent Toolkit to build specialized agents that validate radio-site builds, detect, diagnose and auto-remediate network issues, and deliver multilingual voice experiences. BT is adopting Nemotron to build agents that inspect field-installation photos, detect problems and help reduce repeat site visits.

NTT DATA is extending its NextGenOSS platform with fine-tuned NVIDIA Nemotron models and NVIDIA Agent Toolkit to build agents that detect early network degradation, identify likely root causes and recommend next actions.

Watch the [GTC Berlin keynote](#) from Huang and [explore sessions](#).

About NVIDIA

[NVIDIA](#) (NASDAQ: NVDA) is the world leader in AI and accelerated computing.

Certain statements in this press release including, but not limited to, statements as to: expectations with respect to growth, performance, availability, and benefits of NVIDIA's products, services and technologies, and related trends and drivers; expectations with respect to NVIDIA's third party arrangements, including with its collaborators and partners, and related trials, deployments and timing; expectations with respect to technology developments, and related trends and drivers; expectations with respect to the transformation of telecommunications networks into distributed computing platforms and related benefits; projected market growth and trends; expectations with respect to AI and related industries; and other statements that are not historical facts are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the "safe

harbor” created by those sections based on management’s beliefs and assumptions and on information currently available to management and are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic and political conditions; NVIDIA’s reliance on third parties to manufacture, assemble, package and test NVIDIA’s products; the impact of technological development and competition; development of new products and technologies or enhancements to NVIDIA’s existing products and technologies; market acceptance of NVIDIA’s products or NVIDIA’s partners’ products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of NVIDIA’s products or technologies when integrated into systems; NVIDIA’s ability to realize the potential benefits of business investments or acquisitions; and changes in applicable laws and regulations, as well as other factors detailed from time to time in the most recent reports NVIDIA files with the Securities and Exchange Commission, or SEC, including, but not limited to, its Annual Report on Form 10-K and Quarterly Reports on Form 10-Q. Copies of reports filed with the SEC are posted on NVIDIA’s website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

Many of the products and features described herein remain in various stages and will be offered on a when-and-if-available basis. The statements above are not intended to be, and should not be interpreted as a commitment, promise, or legal obligation, and the development, release, and timing of any features or functionalities described for our products is subject to change and remains at the sole discretion of NVIDIA. NVIDIA will have no liability for failure to deliver or delay in the delivery of any of the products, features or functions set forth herein.

© 2026 NVIDIA Corporation. All rights reserved. NVIDIA, the NVIDIA logo, and other NVIDIA product and service names are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries and regions. Other company, product, and service names may be trademarks of the respective companies with which they are associated.

Olivia Wright
Corporate Communications
NVIDIA Corporation
press@nvidia.com