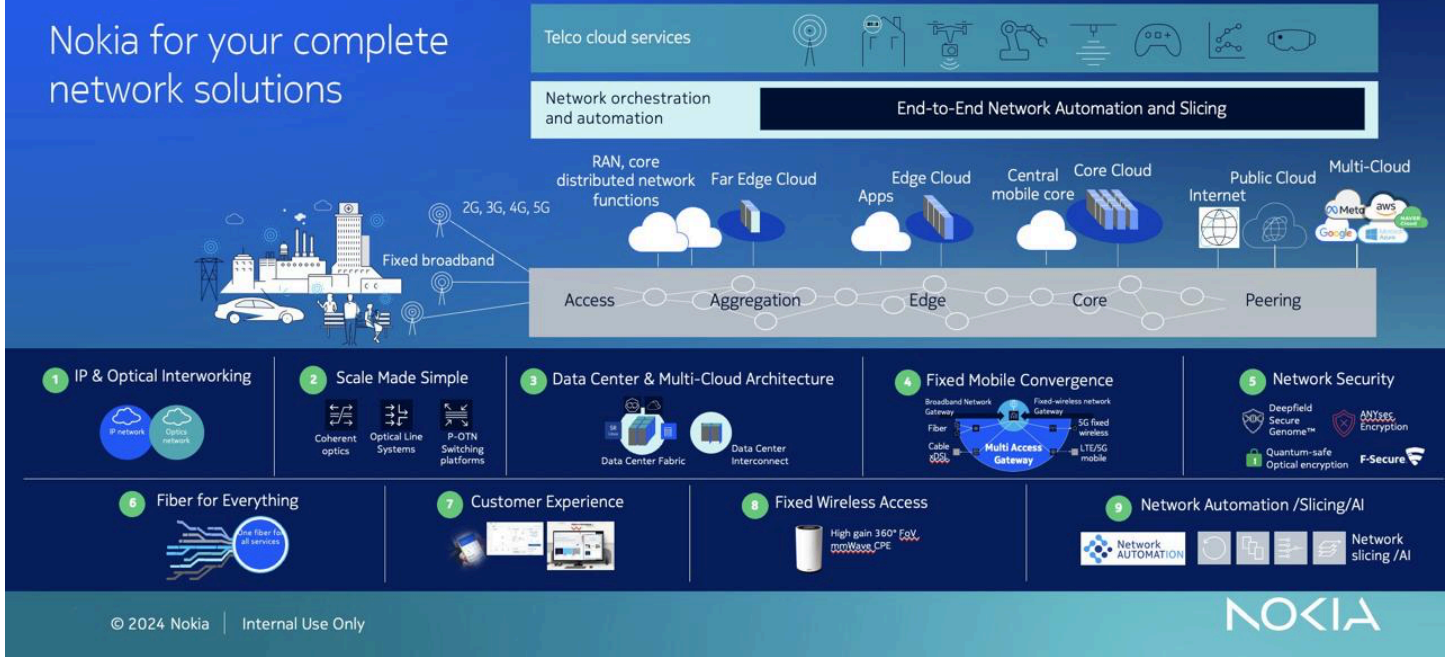


# Network modernization and automation for monetization

Nokia Network Infrastructure innovations in 2024 and beyond

Nokia for your complete network solutions



BATIC 2024 article by Sponsors

## Nokia Network Infrastructure's Path to Sustainability: Cutting Emissions and Innovating for a Greener Future

At Nokia Network Infrastructure, we are deeply committed to reducing our environmental footprint. Our goal is to halve greenhouse gas emissions by 2030, compared to our 2019 levels, and to achieve net zero emissions by 2040. To accomplish this, we have implemented a multi-faceted approach, focusing on four key pillars.

First, we have made significant advancements in silicon technology. Our latest innovation, the PSE-6s super coherent optics (5nm chipset technology), marks a breakthrough in energy efficiency. This cutting-edge technology reduces energy consumption by 40% compared to previous generations, setting a new standard for sustainability in the industry.

Next, our Systems and Software division has introduced the Digital-Twin-as-a-Service. This innovative service enables us to perform complex functions virtually in real time, significantly lowering operational costs and emissions. By leveraging digital twins, we can simulate, test, and optimize our systems without the need for physical prototypes, thereby reducing the carbon footprint associated with traditional methods.

Our supply chain is another critical area where we are making strides. We conduct rigorous due diligence with our suppliers through Environmental, Social, and Governance (ESG) audits and EcoVadis assessments. This ensures that our entire supply chain adheres to the highest standards of environmental and social responsibility, promoting sustainability at every step of the process.

Lastly, we have a strong focus on circularity. For the past 25 years, we have implemented well-established circular economic practices. We strive to maximize the full value of our products, ensuring

they are reused, refurbished, or recycled at the end of their lifecycle. This commitment to circularity not only minimizes waste but also conserves resources, further contributing to our sustainability goals.

Through these concerted efforts in silicon technology, digital innovation, supply chain management, and circular economic practices, Nokia Network Infrastructure is dedicated to creating a more sustainable future. Our actions today are paving the way for a cleaner, greener tomorrow, aligning with our vision of a net zero world by 2040.

Learn more about Nokia sustainability here: [www.nokia.com/about-us/sustainability](https://www.nokia.com/about-us/sustainability)