



Private Networks & 5G Non-Public Networks (NPNs)

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Why Private Networks?

Improved Coverage

A large, stylized version of the Vizle logo is centered on the slide. It features a grey square with a white 'v' and a play button icon, and a light green square with the word 'Vizle' in white text below it.

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Why Private Networks?

Improved Coverage

High Security

Privacy

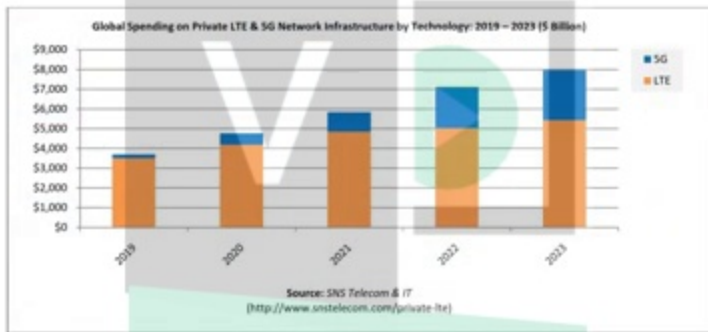
Ultra Low Latency

Ultra High Reliability

Traffic Prioritization

Congestion
Management

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- Expected to reach \$4.7 Billion in annual spending by the end of 2020, private LTE and 5G networks are increasingly becoming the preferred approach to deliver wireless connectivity for critical communications, industrial IoT, enterprise & campus environments, and public venues. The market will further grow at a CAGR of 19% between 2020 and 2023, eventually accounting for nearly \$8 Billion by the end of 2023 ([link](#))



Analyst Forecasts

- “Private LTE and 5G use by the oil and gas, mining, utilities, transportation, government (including public safety) and manufacturing industries will significantly increase due to the availability of new spectrum. The global private LTE/5G equipment and services market is expected to triple by 2025 to about \$10 billion” – Mobile Experts, Feb 2020 ([link](#))
- “The demand for Private Campus Networks offers operators an opportunity for value generation – we estimate the global market size to be €60-70bn by 2025.” – Arthur D. Little, Feb 2019 ([link](#))
- “By 2025, the private Long-Term Evolution (LTE) market comprising of healthcare, transport and logistics, manufacturing, smart venues, smart cities, and oil and gas will be worth US\$16.3 billion with the vertical of transport and logistics being the largest among those analyzed, representing 26.3% of the total market.” – ABI Research, Feb 2019 ([link](#))
- “A recent study from Harbor Research indicated that the private LTE network market could reach \$17B (USD) by 2022.” – Qualcomm, May 2017 ([link](#))



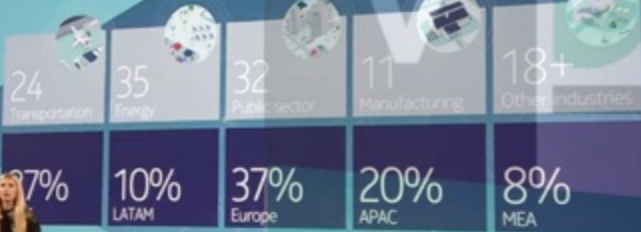
Nokia Boasts of 120+ Private Networks

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Private wireless is surging

120+

Enterprises deploying Nokia private wireless in their premises



Nokia is running 120+ private networks including:

- 24 in transportation
- 35 in Energy
- 32 in public sector and smart cities
- 11 in manufacturing and logistics

Nokia said its current private wireless business includes:

- 24 customers in transportation, including [Port of Kokkola](#), [Port of Oulu](#) and [Vienna Airport](#).
- 35 customers in Energy, including [Minera Las Bambas](#).
- 32 customers in public sector and smart cities, including [Sendai City](#) and [Nordic Telecom/Czech Republic](#).
- 11 customers in manufacturing and logistics, including [China Unicom/BMW](#) and [Ukkoverkot/Konecranes](#).

V

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Industrial

Factories, power plants, warehouses, refineries

Source: Qualcomm

Employee access



Automated Guided Vehicle (AGV)



Security camera



Operator access



Shipment arriving



Intelligent Edge connectivity + computing



V

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Updating
entertainment sys.

Ground/flight
crew access

Uploading
engine data

Uploading
aircraft logs

Interactive
maintenance

Hubs

Airports, railyards,
container ports,
transport hubs

Source: Qualcomm

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