

Private Networks

Connecting assets, equipment and people.



Private networks are fast becoming the foundation of today's digital and automation strategies. Targeting the exact coverage and capacity requirements of your site, these built-for-purpose 4G/5G networks deliver the round the clock connectivity you need to transform operations, embrace smart insights and build for the future.



Industry analyst IDC estimates enterprises will invest approx. **\$5.7 billion in private networks by 2024¹**

The role of a private network

Accelerating efficiency

Assure continuity of business critical operations with always-on connectivity.

Reducing risk

Automate hazardous operations and increase site safety.

Driving the future

Enable 'smart' transformation in manufacturing, mining, transport, logistics and more.

Enabling digitalisation with private 4G/5G network solutions

Remote-control

Control and monitoring of machinery, robots and vehicles

Monitoring assets safely

Improving human-machine communication with Augmented Reality (AR), Virtual Reality (VR) and Digital Twin

Mission-critical communications

When connectivity must be guaranteed to assure performance and safety

Location tracking

Keep track of where people are to keep them safe at all times

Mobile video surveillance

Increasing safety, better decision making and tracking of assets

Robotics

Undertaking hazardous tasks, boosting productivity, maximising efficiency

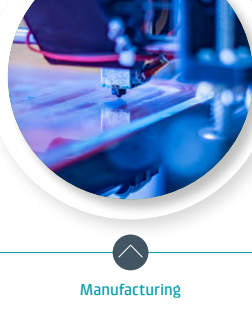
Environmental sensors

Monitoring and optimising energy consumption

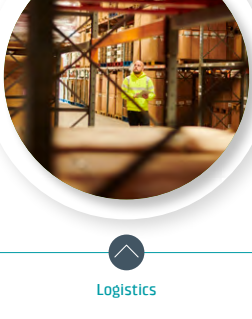
Logistics

Analysing marine cargo or land freight flows and improving security

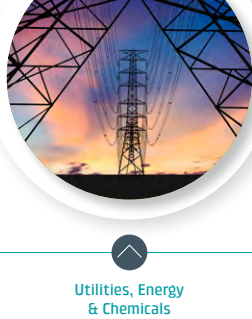
Key adopters by sector



Manufacturing



Logistics



Utilities, Energy & Chemicals



Mining



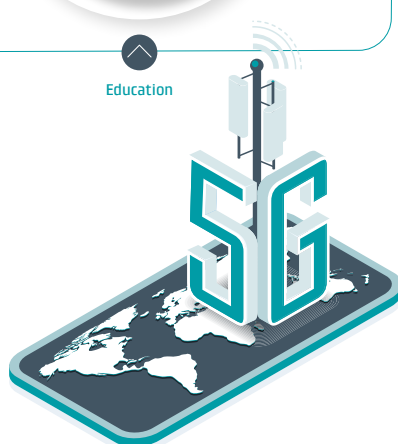
Transportation



Education

How private networks work

A dedicated, private 4G/5G wireless network with coverage and capacity tailored for location and use case.



✓ Purpose-built, private network

✓ High availability, resilient and secure

✓ Low latency, high-speed connectivity

✓ Full network control and management

Advantages over public wireless and WiFi options

- **Public Mobile Networks.** Limited capacity and coverage can mean not-spots, dropped calls and low data throughput.
- **Conventional WiFi.** At-scale WiFi deployments require extensive physical infrastructure, are less secure, and can be impacted by interference or contention problems.

Benefits of a dedicated private network



24x7x365 continuity of business critical operations and communications



Seamless mobility and connection of static and moving assets across the full site



OPEX savings by proactively monitoring equipment to reduce maintenance



Boosting productivity through smarter, more automated processes and operations



Enhancing safety by removing staff from hazardous environments



Data privacy by restricting data on site and restricting outside access



Assured security for private network owners and users



A fully managed service **from Cellnex**

Performance Management and Data dashboard

Optimise the network and achieve complete control and visibility through real-time intelligence and analysis.

Dashboard includes insights on:



Network utilisation



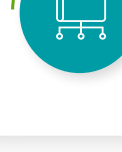
Sensor data (for asset monitoring)



Active users



360° situational awareness (to increase safety)



Network availability

Project design and engineering

Coverage and capacity planning

Deployment and Commissioning

Operational monitoring and maintenance

Analytics and ongoing performance optimisation



About Cellnex

As a Critical National Infrastructure Provider and one of Europe's leading telecommunication companies, Cellnex is trusted by enterprises, the emergency services and mobile network operators.

Cellnex also brings the expertise and experience of Edcom, a Private Networks market leader and wholly owned subsidiary, meaning that our 4G and 5G Private Network solutions provide the most assured answer to the challenges of an Industry 4.0 world.

To find out more, visit our [Private Networks solution](#) pages.

Get in touch

Get in touch with our experts at PrivateNetworks@cellnextelecom.co.uk