

# Private Networks

Connecting assets  
and people. Delivering  
transformation.



# Putting private networks to work

Increasing safety, boosting security and accelerating digital transformation.

In an increasingly automated world, high-performance wireless connectivity is business critical. A Cellnex Private Network delivers the speed and assurance you need; tackling the issues of public wireless and WiFi options to deliver a built-for-purpose voice and data solution that seamlessly connects assets, equipment and people on a single, scalable and secure dedicated network.

Today, low latency, high bandwidth private networks are at the heart of companies' digital transformation strategies. They're powering a new generation of remote control and monitoring services, driving efficiencies through autonomous transport, enabling cost-saving proactive maintenance and delivering critical sensor data to inform business decision making.

And, in combination with artificial intelligence, machine learning and virtual and augmented reality, Private Networks are securing large sites, tracking workers and making hazardous environments safer.

**With a Cellnex Private Network, your transformational ambitions can be realised.**

## Key use cases



Tracking



Drone Surveillance



Control & monitoring of essential assets



Dedicated capacity for customers and partners



Autonomous Vehicles



Augmented Reality





# Private Networks in the real world

Through the delivery of highly available, resilient and always-on connectivity, Cellnex Private Networks are enabling new operating models for a wide range of uses in healthcare, logistics, manufacturing, mining, transport hubs and more.



## The digital port

As the port sector undergoes a shift towards Smart Ports, new and innovative applications promise to drive greater levels of control, efficiency and speed. At the heart of it all is the data communications network, enabling:

- **Seamless connectivity** between assets and the Terminal Operating System (TOS).
- **Delivery of critical situational data** for predictive analytics. For example, providing accurate ship unloading schedules to reduce time in port and streamline operations.
- **Remote operator control** of dockside assets including cranes for vessel loading/unloading and drones for inspections and measurements.
- **Enhanced asset security** and **worker safety** with CCTV monitoring and tracking systems.

## New models of healthcare

Helping hospitals meet the complex challenges of today's demanding patient populations and embrace the digital opportunities, a modern data communications infrastructure supports:

- **The provision of technology-enabled models of care** including robotic surgeries and patient monitoring services.
- **Secure sharing and management** of critical patient records.
- **Enhanced facilities management** to control hospital environments – including ambient temperature, lighting, waste management and emergency access.
- **Asset tracking** to locate and manage medical equipment to increase efficiencies, boost security and minimise theft and loss.

## Transforming utilities

With energy and water utilities looking to data to drive new and more efficient operating models, improve service delivery to customers and assure compliance with sector regulation, a dedicated network offers new opportunities to:

- **Proactively monitor** gas, electricity and water networks to address service problems to achieve government maintenance targets.
- **Enable predictive and proactive maintenance** to control costs and limit loss of power and water resources.
- **Leverage sensor and smart meter data** to change consumption behaviours, address regulatory requirements and reduce environmental impact.
- **Embrace augmented reality and remote control** options to remove people from hazardous environments.



# The dedicated difference

Cellnex Private Networks address many of the pain points associated with conventional wireless options. Operating on a private, dedicated network assures data security, removes the capacity and contention issues common to WiFi and mobile networks, and reduces cabling and fixed line infrastructure requirements.

And because a Cellnex Private Network is designed and purpose-built to your specific use cases, you can be assured of high performance, highly available and secure connectivity to meet business requirements across your entire site.



## Benefits

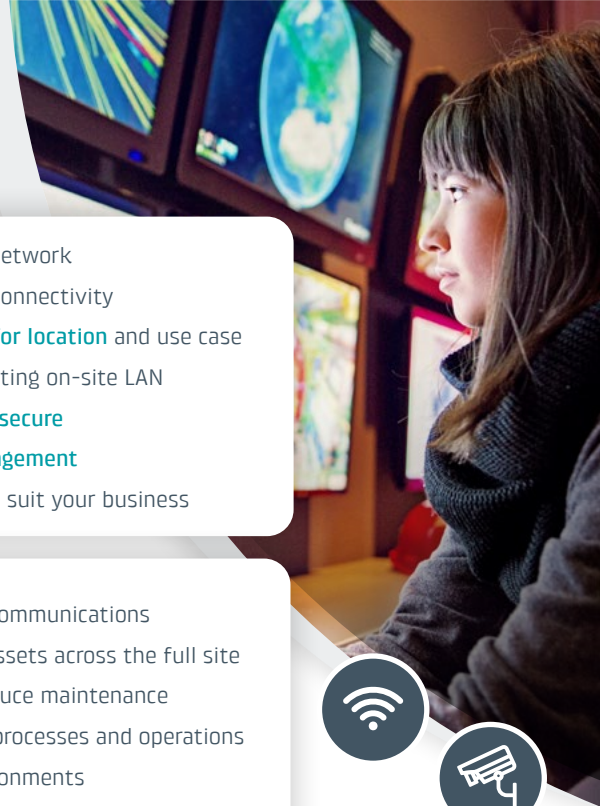


- 24x7x365 continuity** of business critical operations and communications
- Seamless mobility** and connection of static and moving assets across the full site
- OPEX savings** by proactively monitoring equipment to reduce maintenance
- Boosting productivity** through smarter, more automated processes and operations
- Enhancing safety** by removing staff from hazardous environments
- Data privacy** by keeping data on site and restricting outside access
- Assured security** for private network owners and users

## Features



- Purpose-built, private** 4G/5G network
- Low latency, high bandwidth** connectivity
- Coverage and capacity **scaled for location** and use case
- Seamless integration** into existing on-site LAN
- High availability, **resilient and secure**
- Full network **control and management**
- Flexible commercial models** to suit your business



# A fully managed service

From design and planning to deployment, operation and improvement, we are with you all the way.

We start by working with you to understand your business objectives, conduct detailed site surveys then deliver back a Private Network blueprint tailored to your specific sites and use cases – considering both coverage and capacity needs. For example, high bandwidth applications such as HD video surveillance will require more capacity than asset tracking applications.



With the blueprint confirmed, our engineering teams will deploy and commission your Private Network. On completion, your network will be **fully managed** and **monitored 24x7** to ensure optimal performance and uptime. Add our capability to work with relevant third-party specialists, and our ability to offer flexible commercials to suit your financial model, and you're assured a secure, scalable and built-for-purpose Private Network.

Project design and engineering

Coverage and capacity planning

Deployment and Commissioning

Operational monitoring and maintenance

Analytics and ongoing performance optimisation



## Delivering control and visibility

Our Performance Management and Data dashboard delivers real-time intelligence and analysis to give you complete visibility and control to optimise network performance and identify potential issues before they become problems.

The dashboard includes network utilisation, availability, and active users on the network. Other aspects applicable to your deployment such as predictive maintenance using sensor data, monitoring equipment and vehicles, and 360° situational awareness can be added to the dashboard, enabling you to increase safety and improve decision making.



# Get in touch

**As a UK Critical National Infrastructure Provider and one of Europe's leading telecommunication companies, Cellnex has deployed more Private Networks than anyone else.**

Together with market-leading provider Edzcom, a wholly owned subsidiary of Cellnex, and working in partnership with you, we will design a bespoke network solution to help you tackle the connectivity challenges of your always-on world.



Find out more and book a meeting with our Private Network experts, get in touch at:  
[PrivateNetworks@cellnextelecom.co.uk](mailto:PrivateNetworks@cellnextelecom.co.uk)

[cellnextelecom.co.uk](https://cellnextelecom.co.uk)

Cellnex plays a key role within the telecoms sector enabling connectivity throughout Europe. In the UK, as the country's leading independent telecoms site partner, Cellnex provides critical national infrastructure & services to telecoms operators, emergency services organisations and many other enterprises.

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## Further Reading

Cellnex has deployed over 30 large-scale Private Networks for customers across Europe. See how we're supporting your industry and use cases.

Visit our **Private Networks Solutions** page.



**cellnex**  
driving telecom connectivity

