

Ports

We deploy **a complete connectivity solution meeting all port requirements** to enhance management **for the benefit of the authorities, workers and clients.**

More connectivity means better decisions for your port. Our end-to-end connectivity solutions will grant you full fixed and/or mobile coverage across your entirety of your facilities.

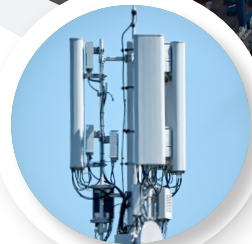
Our Private Network delivers capacity and coverage across business-critical areas of operation and provides real-time feedback to improve operational decision-making and problem-solving as well as enabling high end IoT solutions.

We make autonomous assets and remote controlled units possible through our reliable, high bandwidth

connectivity taking your business to the next level.

Keeping port personnel connected continuously is one of our priorities. This includes anything from video streaming by fixed/in-vehicle cameras to protecting workers in hazardous areas.

Cellnex provides a high level of expertise in network deployment, operation & maintenance, all combined with our capacity of working as a neutral network operator grants us the power to provide a unique solution to your port needs.



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A private, dedicated network assures data security, removes the capacity and contention issues of WiFi and mobile networks, and delivers round the clock connectivity.

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Our network allows port authorities to access, manage and protect an ever-expanding volume of data. As your SPoC, Cellnex delivers full infrastructure management end-to-end for your port.

Delivering digital transformation, innovation and competitive advantage

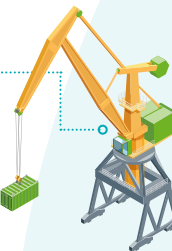
Mission-critical communications

Guaranteed, always-on connectivity to Terminal Operating System (TOS)



Remote-control

Control and monitoring of container cranes and vehicles



Increase safety

Remove humans from dangerous areas with Augmented Reality (AR), Virtual Reality (VR) and Digital Twin



Location tracking

Efficiently and automatically manage truck queues to speed loading/unloading



Robotics

Undertaking hazardous tasks, boosting productivity, maximising efficiency



Environmental sensors

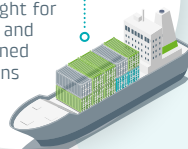
Asset and infrastructure insights to reduce emissions and improve air and water quality

Video surveillance

Aerial and marine drones for inspections and measurements

Logistics control

Analyse marine cargo and dock-side freight for security and streamlined operations



Features and Benefits of our Private Network

- Purpose-built 4G/5G network delivering the coverage and capacity you need, where you need it
- Low-latency, high bandwidth connectivity guarantees always-on performance, eliminates outages and assures operational continuity
- Secure and private, restricting access from outside and delivers data protection and compliance as standard
- Offers opportunities to deploy automation, AI or robotics to increase efficiency, streamline operations and reduce cost
- Delivers the ability to track and monitor assets and employees to increase site and worker safety
- Managed by a single, experienced partner to cut through the complexity, deliver a bespoke solution and eliminate investment risk

Why Cellnex?

Cellnex is unique in our ability to offer flexible financial models that allow you to set up our solutions as a service, adapting to your financial needs.

With Cellnex, you also have the chance to create additional revenue streams. This means port operators can use the network capacity to become micro-operators – inviting port partners into a secure Private Network ecosystem and charging for the services.

References

Our solution is designed to meet all types of port connectivity requirements.

PORT OULU



Powering the port ecosystem with a cost-effective 5G ready digitalization



KOKKOLAN SATAMA
PORT OF KOKKOLA



Enabling advanced IoT applications for the port ecosystem with massive data transferring and a private LTE Network



Building intelligent cargo handling solutions through connected R&D. High capacity, low latency and secure connectivity.



Connectivity for real time HD video camera surveillance of moving container cranes



Private LTE tailored to fit needs for capacity, usability and coverage.



Provide a smooth evolution from a Private LTE to a 5G SA Private Wireless Solution to ensure support R+D advanced developments on smart factory and test cranes.



Private Mobile (LTE/4G) Network deployment for IoT applications including drone surveillance and a Smart Brain platform.



Full Mobile coverage for commercial customers in both terminals ensuring the best possible experience for the port clients and visitors.