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Nokia Connected Smart Grid

Make Industry 4.0 a reality with Industrial-grade Private Wireless

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Make Industry 4.0 a reality

As enormous environmental and economic changes transform the landscape, how can utilities turn the possibilities of Industry 4.0 into operational realities today?

Power grid modernization is crucial for sharpening operations and – as grids integrate distributed energy resources – a dynamic balance of supply and demand is key.

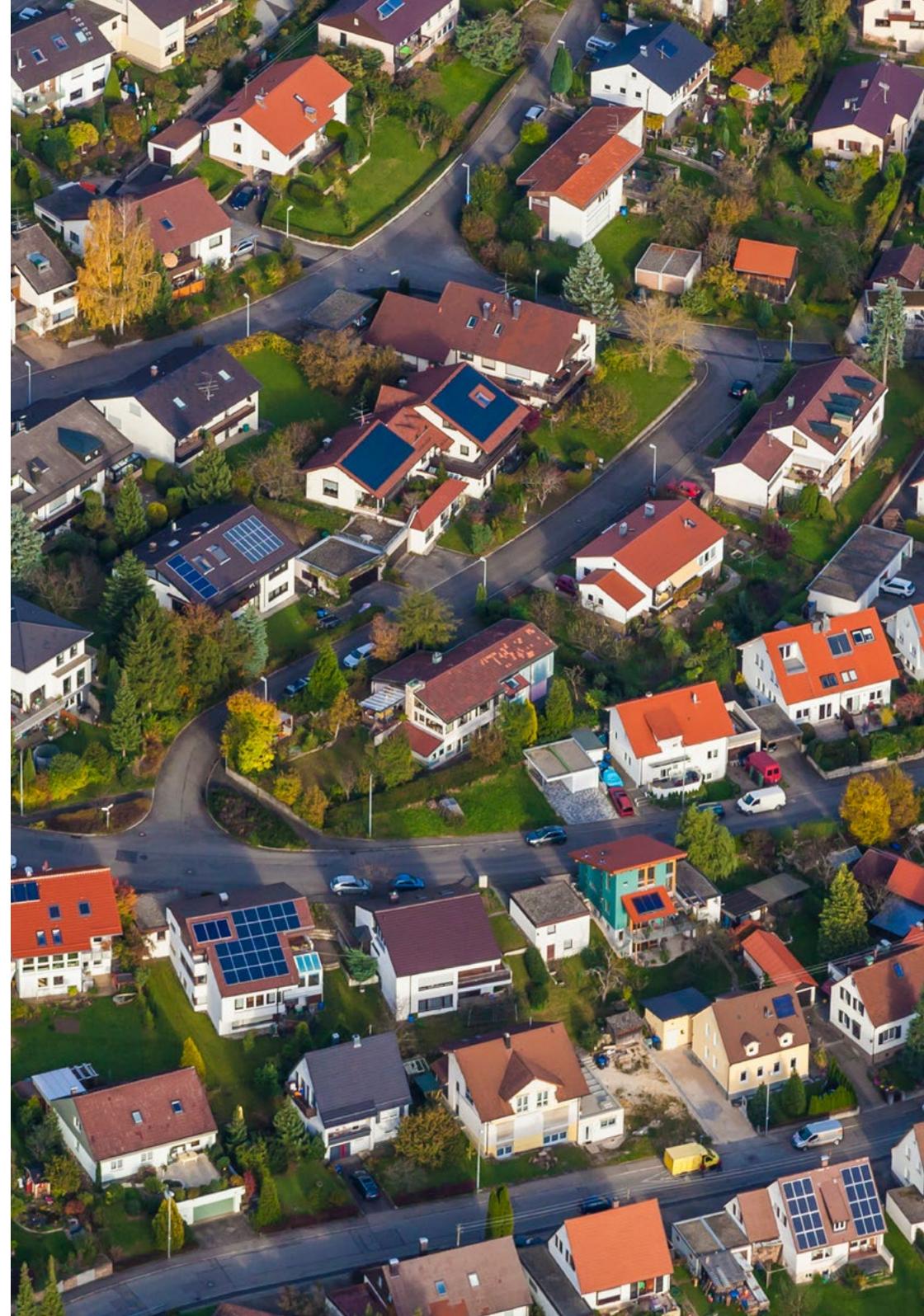
The trouble is, the wireless networks that most utilities rely on weren't built to support these new business-critical use cases. They lack the latency, performance and connectivity capabilities to support reliable, agile grids and smarter workforce safety.

To make Industry 4.0 work for your organization, you need industrial-grade, pervasive wireless connectivity.

A market leader in 4G and 5G public networks, Nokia today enables you to meet critical operational connectivity requirements with a dedicated LTE network built to handle the demands of industrial applications, offering you:

- **Intrinsic security**
to ensure truly compliant and reliable connection
- **Mission-critical reliability**
for continuous operations
- **Deep, wide coverage**
to connect everyone and everything
- **Predictable performance**
for automation and real-time asset coordination
- **High capacity**
to easily handle the rapid growth of devices, sensors and data
- **Greater operational control**
to enhance safety and respond quickly to changing business needs
- **Effortless mobility**
built on trusted 3GPP mobile standards

Industry 4.0 reaches beyond technology, it's also about choosing the right partner.



Connect everything and everyone across your grid

Nokia Industrial-grade Private Wireless provides efficient, reliable mission-critical connectivity for all grid equipment, applications and personnel on a dedicated converged network.

Greater resilience and availability enable more efficient ways of working in the field. A secure private network offers the capacity required for growing volume and data variety while Quality of Service (QoS) prioritizes performance for mission-critical traffic. With LTE/4.9G technology today, and a seamless transition to 5G tomorrow, private wireless can empower your move to smart grids right now – and help you make them even smarter in the future.

Distribution automation

Increase automation and resource management across your smart grid.

- Digitize, interconnect all devices including new distributed generation and storage
- Application-specific FAN convergence
- Combine with IP/MPLS to optimize performance for critical devices at grid edge

AMI data backhaul

Optimize reliability and reduce costs with a flexible, new services ready solution.

- Reliable, secure AMI traffic transport
- Real-time energy usage pricing models
- Single multipurpose infrastructure

Synchrophasors in distribution grid

Respond to real-time grid conditions for enhanced power quality and reliability.

- Real-time grid monitoring
- Proactive issue detection and response
- Detect and respond to intermittent problems

Remote worker communications

Empower and protect field workforce with broadband data, video and voice connectivity.

- Remote-access business-critical applications and intelligence
- Increased workforce safety and productivity
- Eliminate dual-network costs

Wind farm predictive maintenance

Reduce costs and downtime with asset-optimizing connectivity and analytics.

- IoT and analytics-optimized operations
- Predictive maintenance
- Enhance onsite worker safety and productivity

Virtual reality (VR) and analytics

Refresh worker training with VR and analytics for enhanced safety and productivity.

- Accessible pre-task training
- 3D replicas of grid equipment
- Automatic risk detection and alerts

Want to learn what reliable, secure, high-performance connectivity could do for your organization?

Get in touch with one of our experts today:
<https://info.rfsworld.com/contact-us>



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About Nokia

We create the technology to connect the world. Only Nokia offers a comprehensive portfolio of network equipment, software, services and licensing opportunities across the globe. With our commitment to innovation, driven by the award-winning Nokia Bell Labs, we are a leader in the development and deployment of 5G networks.

Our communications service provider customers support more than 6.4 billion subscriptions with our radio networks, and our enterprise customers have deployed over 1,300 industrial networks worldwide. Adhering to the highest ethical standards, we transform how people live, work and communicate. For our latest updates, please visit us online www.nokia.com and follow us on Twitter [@nokia](https://twitter.com/nokia).

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