De-Mystifying Industrial 5G

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The future of industrial manufacturing will undoubtedly involve cutting-edge technologies including Industry 4.0, smart factories and the Industrial Internet of Things (IIoT).

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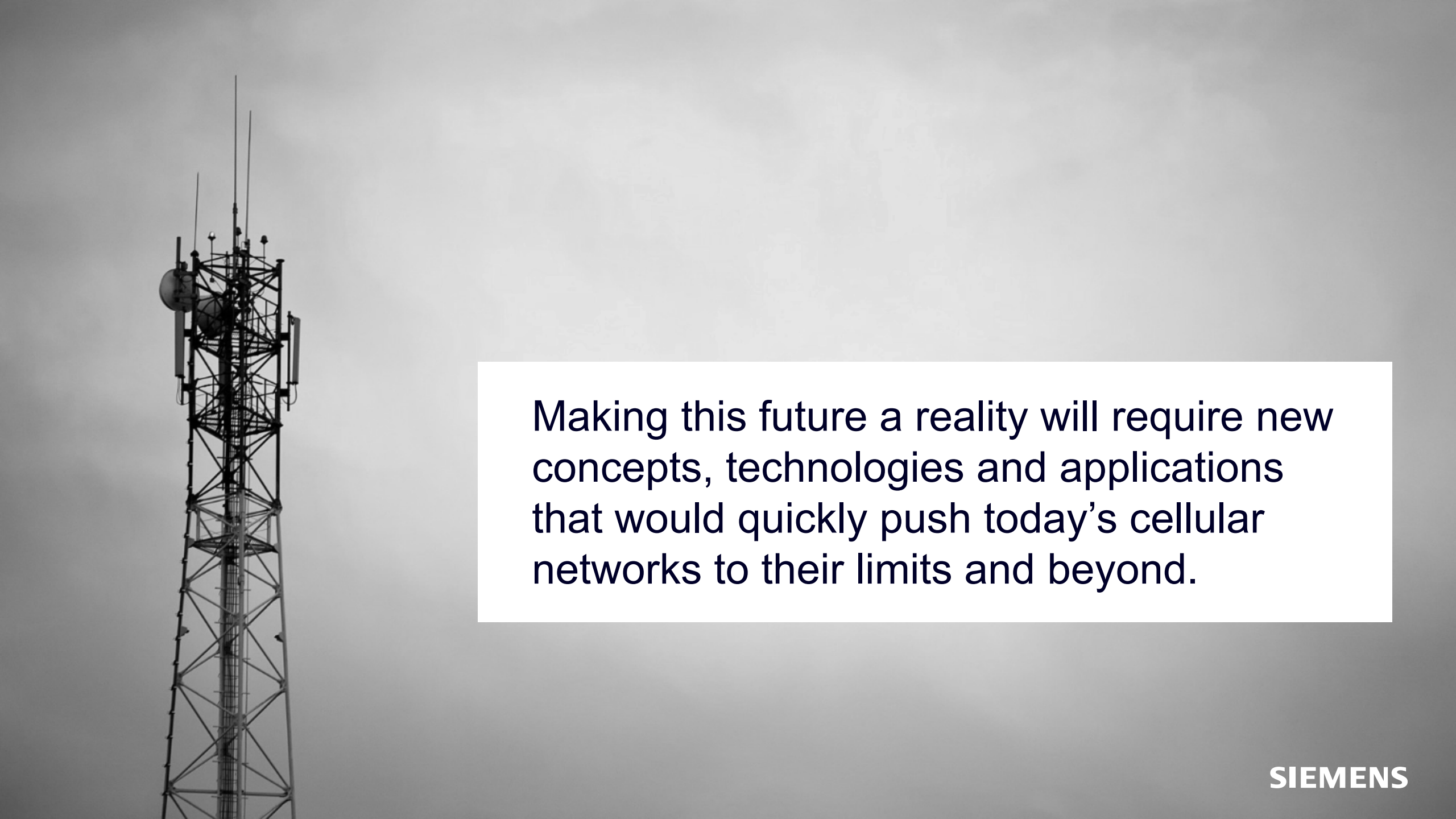

Making this future a reality will require new concepts, technologies and applications that would quickly push today’s cellular networks to their limits and beyond.

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This is where Industrial 5G comes into the picture.

The unprecedented reliability, extremely low latency, and comprehensive IIoT connectivity of industrial 5G will open the door to these and other industrial applications.

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Industrial 5G is cellular communication that meets the demands of industrial applications.

It runs on hardware that's designed specifically for industrial environments.

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Industrial 5G offers extremely high reliability, ultra-low latency, and comprehensive IIoT connectivity.

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Industrial 5G is the decisive step to enabling a complete wireless network for industrial manufacturers, distributors, and related organizations.

It will change the way decisions are made, products are manufactured and factories are maintained in the future.

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A wide range of Industry 4.0 applications will benefit from industrial 5G, including:

- Autonomous logistics for automated guided vehicle systems (AGVs) in intralogistics
- Augmented Reality applications in an industrial setting
- Mobile equipment such as industrial tablets, field PGs and RFID scanners
- Industrial edge, or smooth data exchange between edge devices and the cloud

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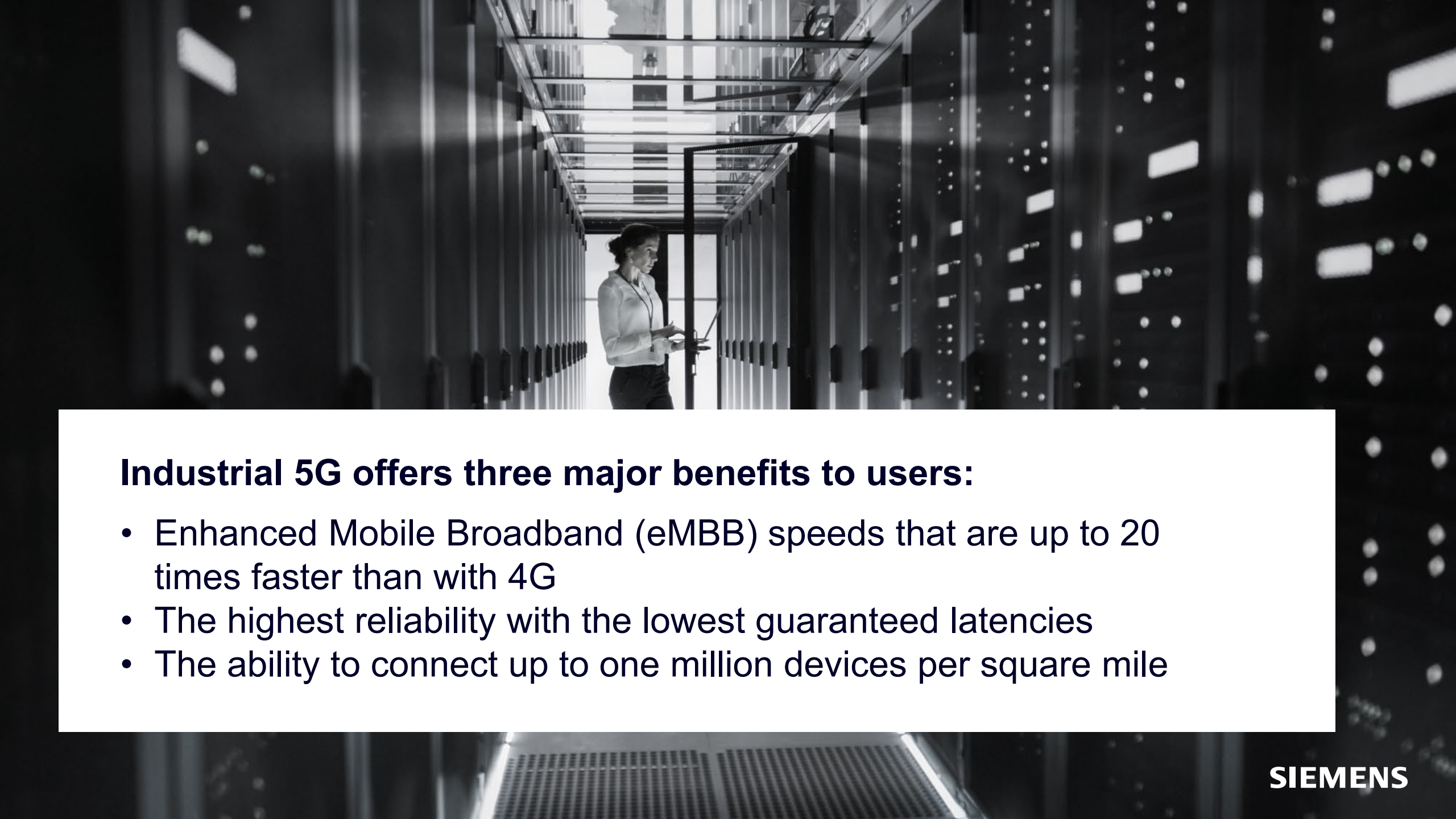

Industrial 5G offers three major benefits to users:

- Enhanced Mobile Broadband (eMBB) speeds that are up to 20 times faster than with 4G
- The highest reliability with the lowest guaranteed latencies
- The ability to connect up to one million devices per square mile

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There are a few common misconceptions about industrial 5G right now. One of the biggest is that there's no difference between industrial 5G and consumer 5G.

The consumer 5G currently offered by major telecoms is based on Release 15, or R15, of the wireless standard generated by the 3rd Generation Partnership Project, or 3GPP.

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However, 5G technology based on R15 doesn’t need to support industrial production related 5G applications.
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Industrial 5G is based on R16 & R17 of the wireless standard, both more robust than R15.

Siemens is deeply involved in the development and future deployments of these releases

In Siemens search for long-term, sustainable communication solutions the company is driving the development of industrial 5G by actively supporting the implementation of the R16 and R17 standards.

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Siemens is an active and contributing member of the 5G Alliance for Connected Industries and Automation, a global initiative established to help ensure that the manufacturing and process industries can consistently benefit from 5G.

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Siemens has developed the first mobile industrial 5G router: SCALANCE MUM856-1, which was developed specifically for applications in demanding industrial environments.

Importantly, Siemens has established its own private standalone 5G network in an industrial environment at the company's Automated Showroom and Test Center in Nuremberg, Germany.

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Driving the Industrial 5G Revolution.

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