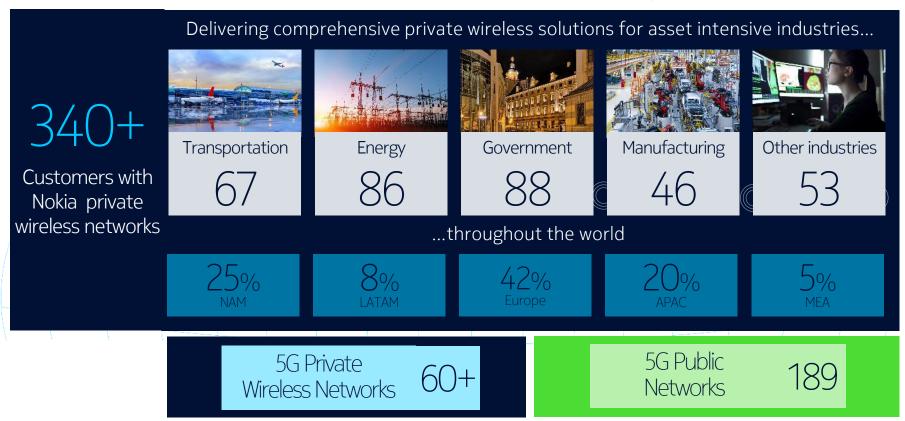


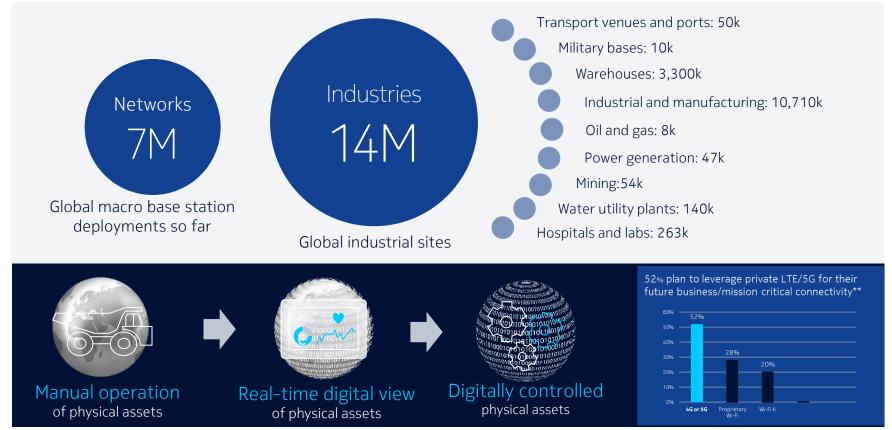
## Private Wireless Networks are well on the way...



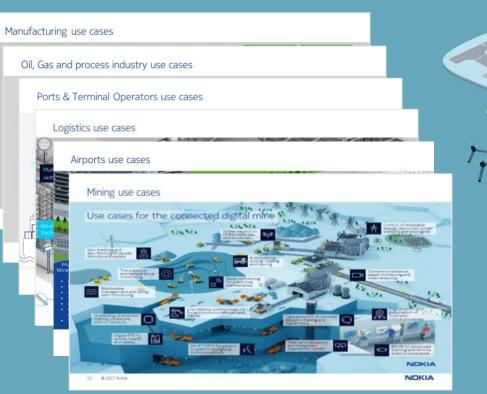
Digitalization of asset-intensive industries with mission and business critical needs using high performance networks and digital automation solutions



## Private Wireless Networks and Industry 4.0 Journey is only starting



## Private Wireless NW Use Cases & Industry 4.0 Key Drivers









to meet fast changing requirements





efficiency helps lower environmental impact



## Enterprises that start/evolve their digitalization journey with 5G





Germany, maintenance, repair, and overhaul (MRO) services for aircraft (21 facilities worldwide)

 Save customer time and travel to Hamburg by offering virtual engine parts inspection using 4K cameras to decide on repair/replace

Wi-Fi replacement for reliable high speed very wide area (large repair hangars) and deep coverage (in and around plane)

Deployment in Hamburg site hangar





Sweden, Underground mine machine manufacturer

Complement existing 4.9G network to validate technology to enable the future of mining machine innovation

- · Remote operation of autonomous loaders and trucks
- · Real-time monitoring of premises to keep people and equipment safe
- · Remote machine diagnostics and predictive maintenance

Deployment in Sandvik underground test mine in Tempere. Finland







Japan, Largest car manufacturer & System integrator

Help accelerate digital transformation & factory automation

- Validate 4.9G and 5G performance
- · Integrate next-generation manufacturing use cases & design innovative production processes for global manufacturing sites

Deployment in TEPC, Toyota **Production Engineering facility in** Fukuoka, Japan





German rail operator

Validation of Advanced Vital Vehicle Operation (AVVO)

- · Validate fully automated, driverless shunting of empty trains
- Drivers on board to keep safety responsibility

Track coverage at and around Bergedorf station, Hamburg



