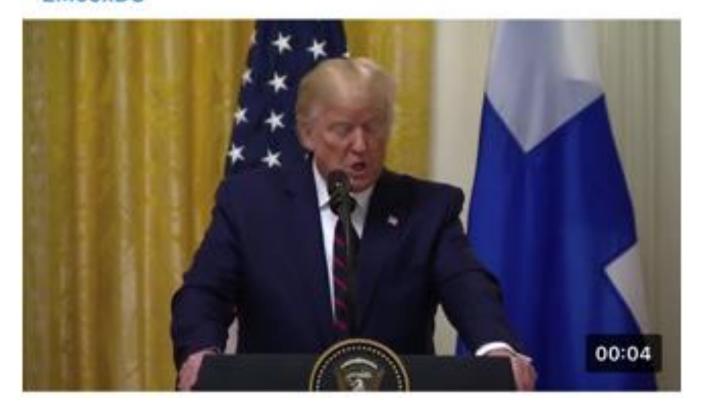


Welcome to the 4<sup>th</sup> industrial revolution



President Trump said it well: Nokia Bell Labs is building a secure #5G for the U.S. in New Jersey. Nearly 100 years of #innovation and still going strong https://nokia.ly/ 2Mc5xBO

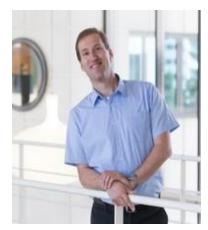




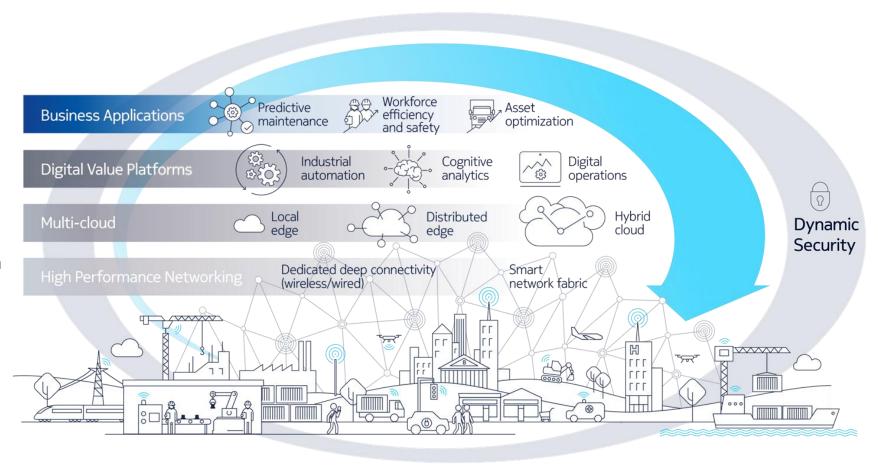
### Who are we?



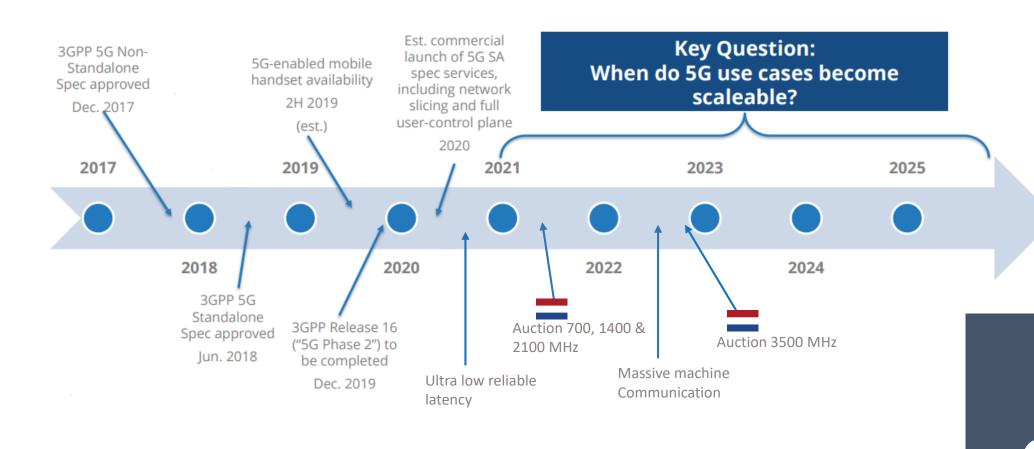
Hans J. Leijting Head of MSO Market Business Development / Innovation



Eric Kroon Head of services BeNeLux



## 5G Roadmaps



Extreme

Mobile

Broadband

5G

Critical

machine communication

 $\frac{2}{3}$ 

Massive

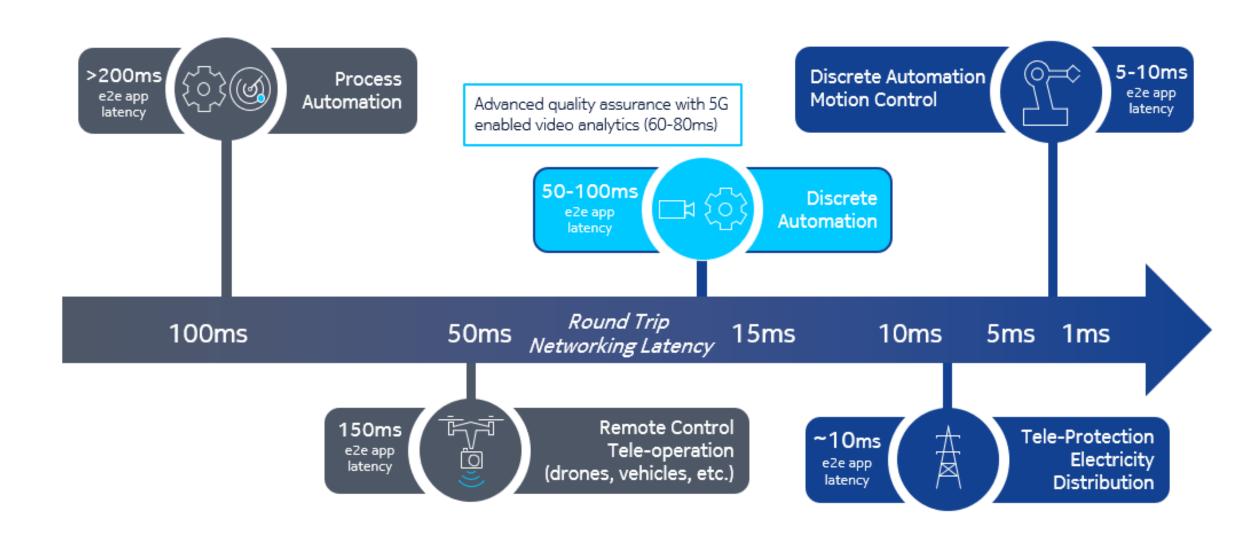
machine communication

## 5G is a giant leap

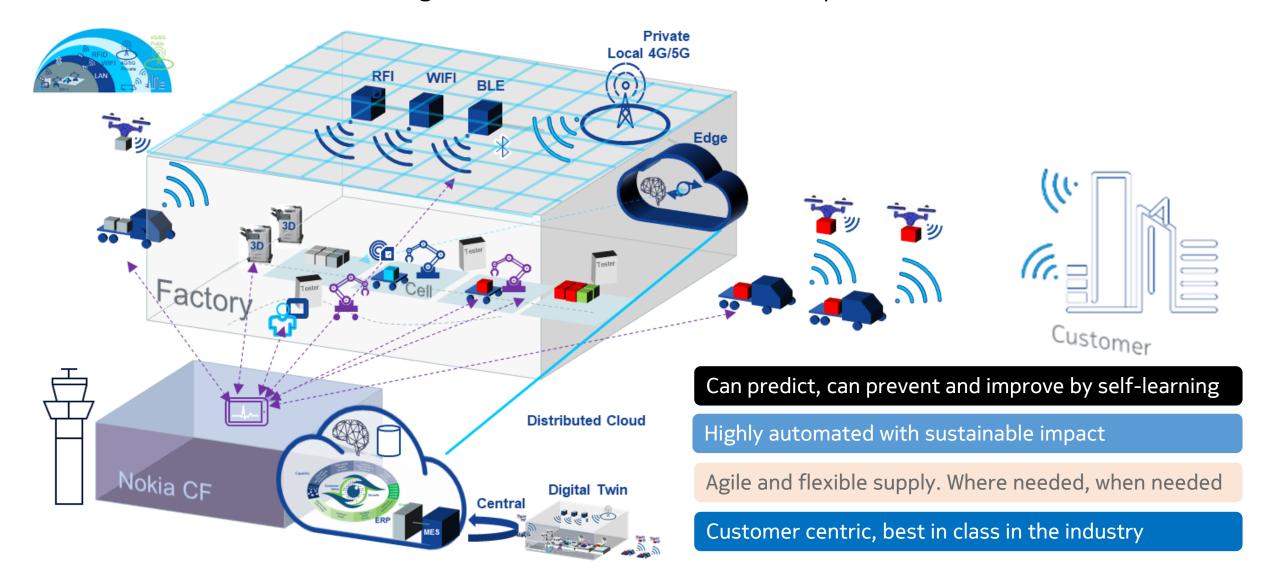
	New technologies	New business case	New revolution
	Today	2020-25	
Users	10M people	+100M 'things'	
Speed	100 Mbps	100x faster	Smart home Mobile gaming
Latency	>>10 ms	10x less	
NW service level	Best effort for all	Committed SLAs	Industry 4.0 Connected cars
Logical networks	1	Many (slices)	Drones loT wearables

### Industrial Robotics and Automation

Range of Latency Performance Classes

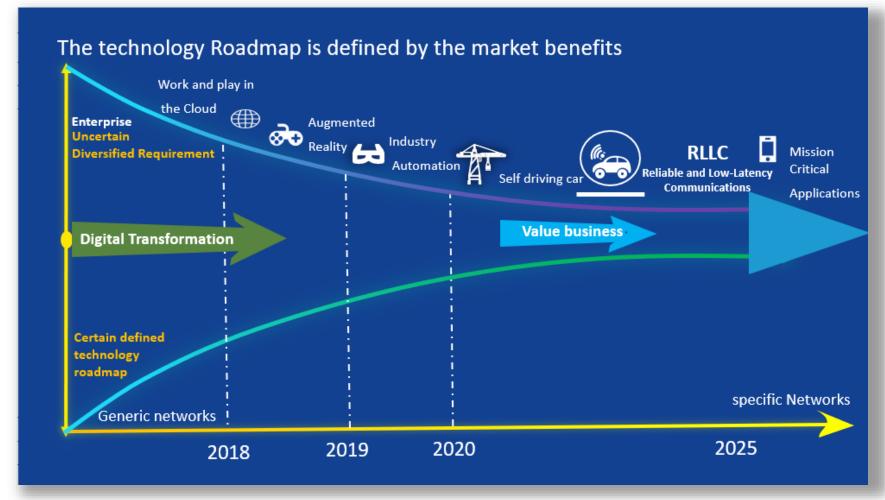


# Factory of the future 4th industrial revolution & digitalization at Nokia Oulu factory





## What is important to 5G transformation criteria



#### Technology roadmap will be defined by market benefits

- The connectivity technology roadmap is defined globally by 3GPP.
- This will drive customer innovation and business benefits (technology push meets market pull).
- Our managed connectivity services will bridge the gap between technology and customer demand.

### Network of the future

