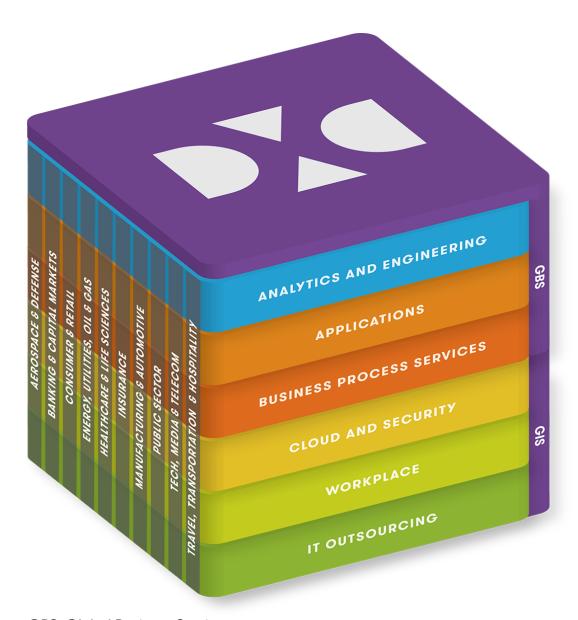


DXC Technology at a glance





~\$20B global IT services leader ~138,000 employees worldwide 70+ countries

GBS: Global Business Services
GIS: Global Infrastructure Services

"new DXC"

"We Don't Want to End Up Like Nokia"

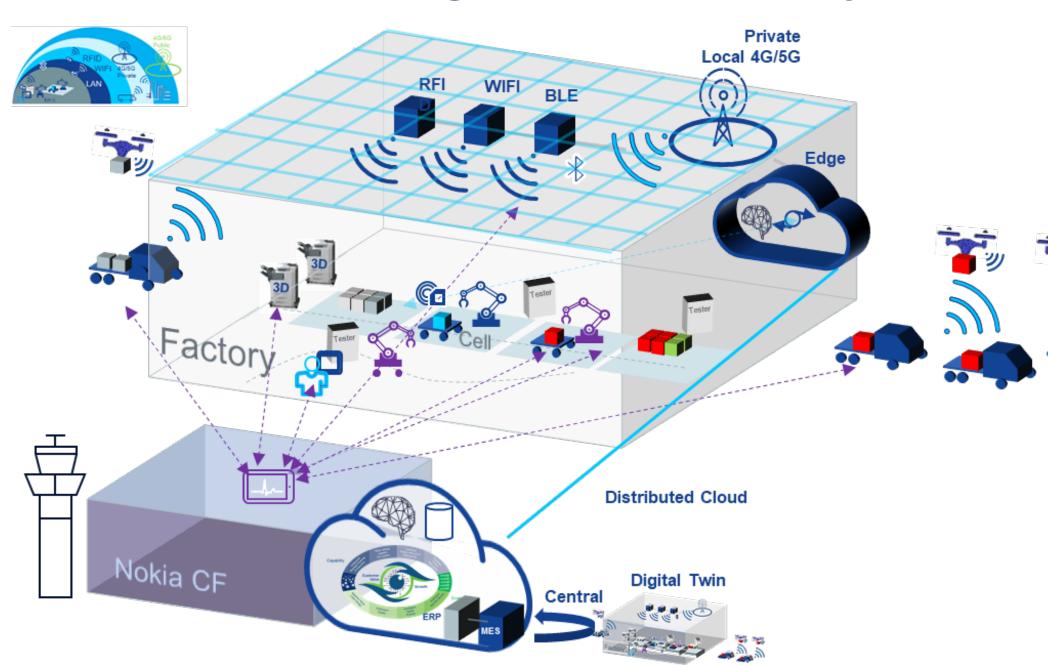
Herbert Diess, VW CEO, 6 Nov 2020

"The bigger transition automotive will face is really as the car is becoming more and more of a <u>software device</u>, gathering huge amounts of data, and then building up from the data artificial intelligence, knowledge about the driver, road conditions, safety, and then improving the way this device behaves.

"There's a decision we have to make: are we becoming the providers of kind of a shell, a body style which then is equipped with a computer from a third party that is running the cars, or are we able to convert this exciting, precious device into a real internet device?"



Nokia Oulu 5G LightHouse Factory







A/R NPI advanced training

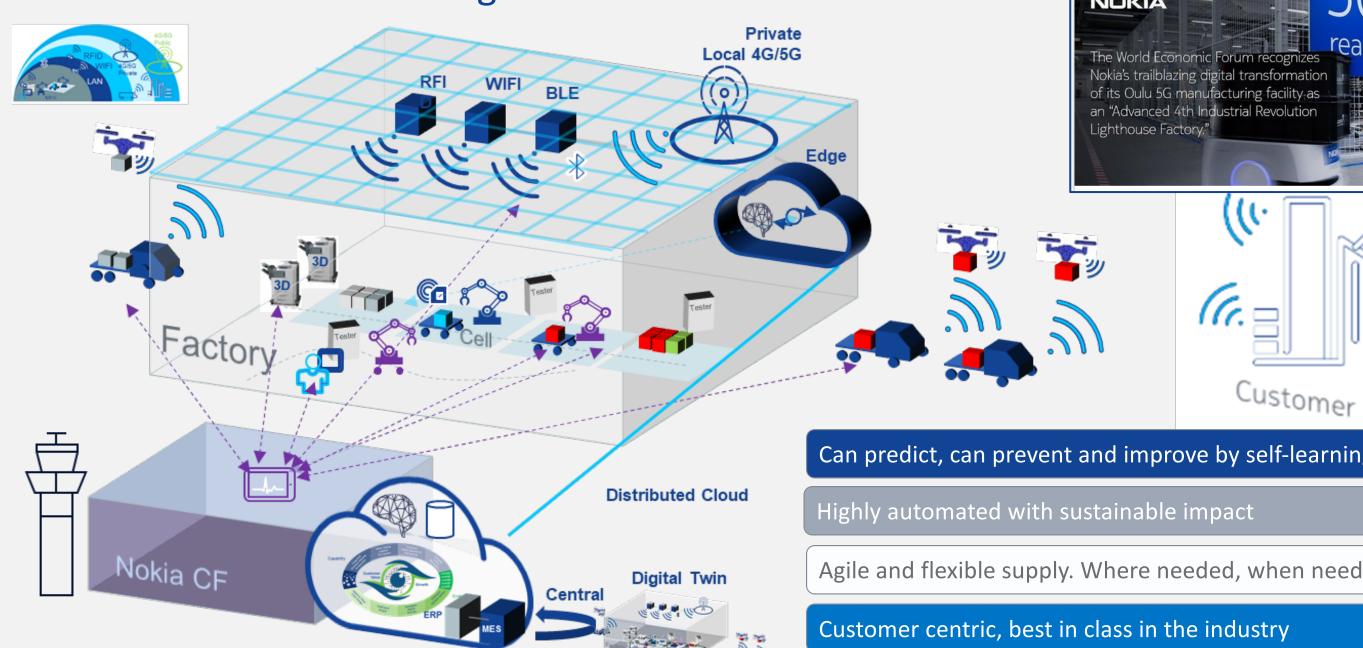
Real Time Asset location

Remote Assisted self-driving AGV

Fine predictive maintenance

Nokia Conscious Factory of the future

4th industrial revolution & digitalization at Nokia





Can predict, can prevent and improve by self-learning

Agile and flexible supply. Where needed, when needed



DXC Smart Factory: the roadmap for Industry 4.0



Executive



Designer



Planner



Foreman



Inspector



Operator



Maintenance

Enabling Industry 4.0 technologies



Digital Twin



3D Modeling



Virtual Design



Digital Thread



Master Data Management



lloT



High Performance Computing



Additive Manufacturing



3D Scan



Augmented Reality



Secure Collaboration



Supply Chain Tower



Robotic Process Automation



Machine Learning / Artificial Intelligence



"new DXC"

Transforming the Manufacturing Operations

through the experience of the DXC MES Practice



Boosting plants productivity and products quality

- Centralized supervision and visibility of all the distributed manufacturing operations, to enable better management decisions in R&D, Supply Chain, Quality and Maintenance
- ► Improve Resources utilization, by optimizing Production processes execution
- ► Full "traceability" (history) of components, machines, operators and timings, to guarantee the final product quality level
- Control, Reduce and Standardize production lead times and operational costs across plants, by implementing the global Enterprise
 Manufacturing Execution System



Transformation methodology

- ► Accelerated *Digital manufacturing implementation program*:
- adaptive modular kernel design, based on BU's specs
 - parallel massive rollouts deployment
- ▶ Design Thinking approach to quickly map the full processes flow to cascades of self-driving screens for the operator's mobile devices
- Proved combined expertise of on-site manufacturing consulting and offshore specialized capacity for scalable implementation and secure & costeffective delivery



Competing through Innovation

- ► Advanced Machine Integration: Remotely monitor plant machines in real time, automatically detect anomalies, and trigger alerts to improve efficiency and quality
- ► Flexible Lines Allocation:

 Distributing work orders to available lines with on-line switching to alternative machines or materials
- Friendly User Interface: to realize the Paperless Factory, enabling the line operators directly managing and controlling in real time the full shopfloor process flow



Preparing for the future

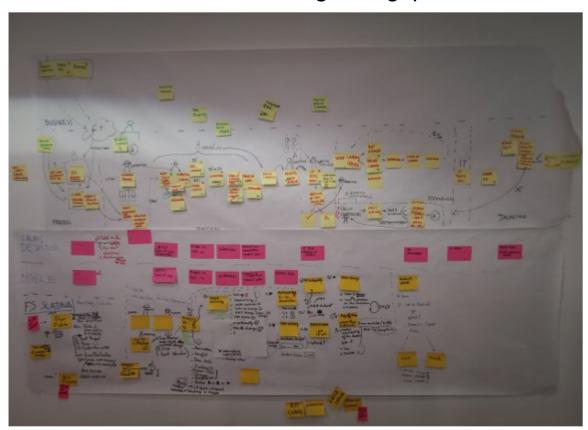
- ▶ Industrial IoT: exploiting all the shop floor information history (material movement, use and consumption, tasks execution, machines status, defects...) to enable new classes of applications: predictive maintenance, early defect detection, power consumption optimization...
- ▶ **Private LTE/5G**: 100x network performance improvement inside and outside the plant, also enabling additional Industry 4.0 applications (augmented reality, autonomous trolleys, full remote control...)

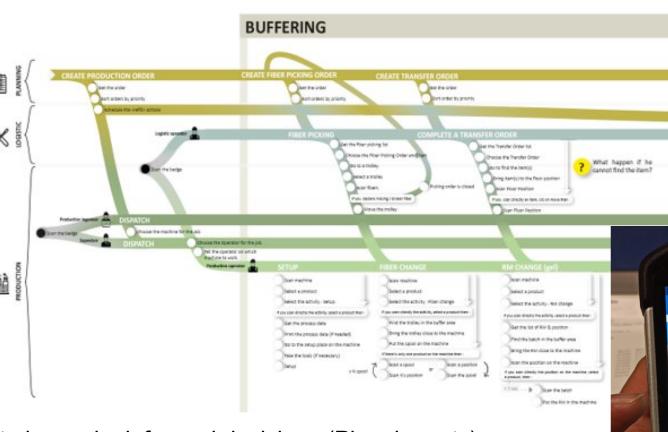


UI process flow through Design Thinking

A Design Thinking approach has been used to adapt the Mobile flow to the physical process.

Handheld mobile devices bridge the gap between desktop system and shopfloor.



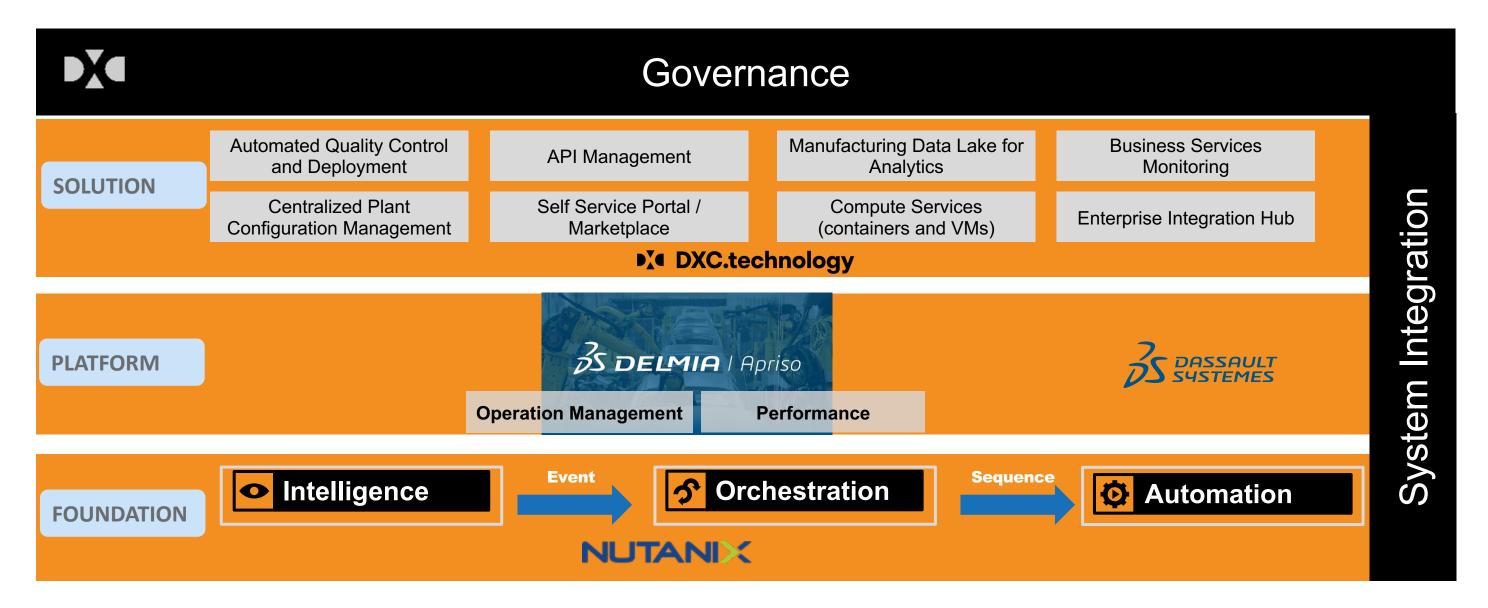


Aiming at helping users not only perform better their job but also make informed decisions (Planning, etc), specific applications have been devised:

- through sprints and by extensive use of use stories, as in Agile Methodology;
- as per Industry 4.0 requirements: Interconnection, Informative Transparency, Technical Assistance.

Plant as a Service: un'architettura integrata

Sincronizzare la piattaforma applicativa con l'infrastruttura tecnologica



DXC.technology