

16:15 - 17:00 Industry 4.0 digital transformation enabled by private networks

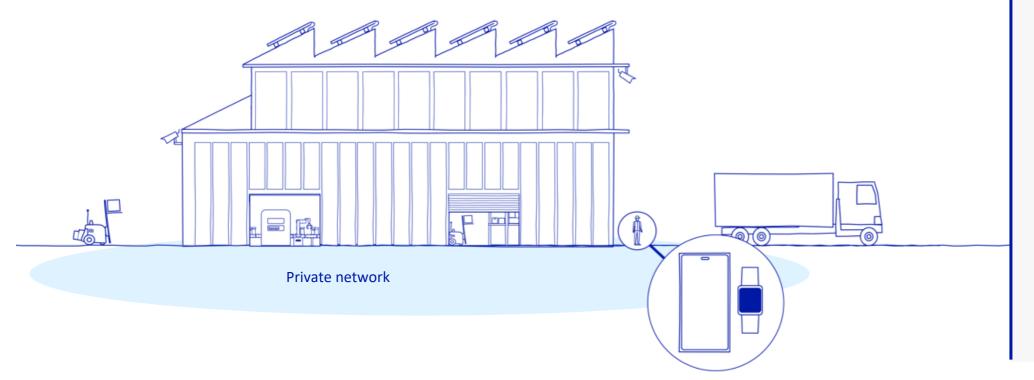
Sandeep Raithatha - Head of Innovation and 5G Private Networks, Virgin Media O2 Business Dario Cesena - CEO Geprom, Part of Telefónica Tech 100 Years Leading Change



Industry 4.0 digital transformation enabled by private networks

5G private networks enabling digital transformation

The game-changing capabilities of 5G make digital transformation possible for industrial sites where it had been unfeasible before



Dedicated

Local network, dedicated resources, independently managed

Secure

Cellular grade security, sensitive data stays onpremise

Optimised

Tailored performance for local applications, e.g. low latency, QoS

Private Networks has the potential to transform entire sectors

Sectors such as Manufacturing, Seaports, Logistics & Utilities have emerged as early adopter verticals despite macroeconomic headwinds.



Manufacturing



Utilities



Airports and Seaports



Major infrastructure projects



Oil, Gas and Energy companies



Defence



Logistics and Warehousing



Healthcare



Private Network is an enabler for digital transformation

Reducing costs, creating a safer working environment and creating a more sustainable business are the key drivers



Maintaining profitability



Improve health & safety

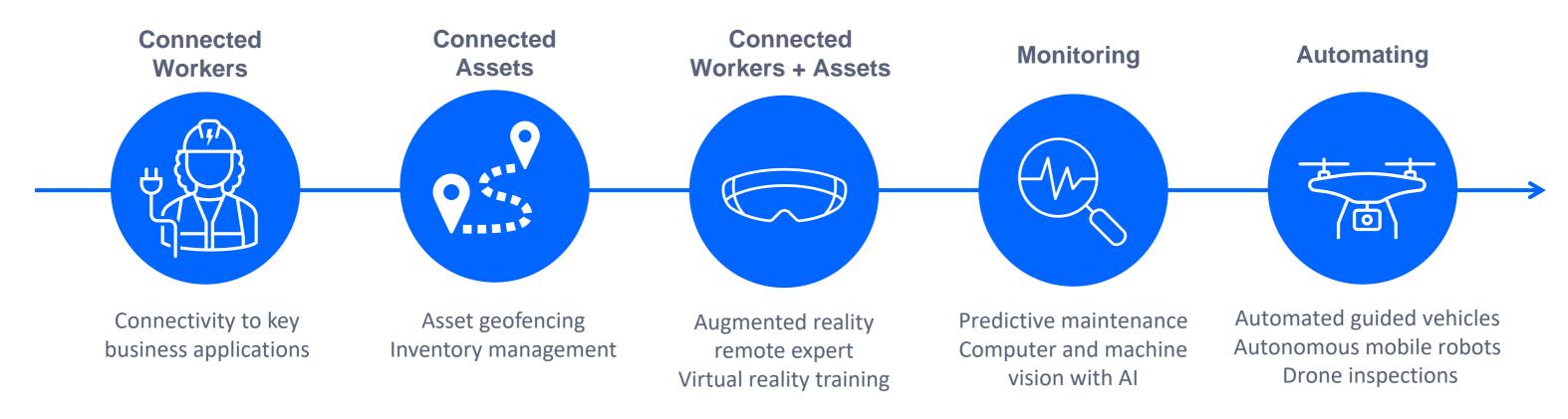


More sustainable business



A Digital transformation journey

Thinking beyond the tech to drive key outcomes and value is critical





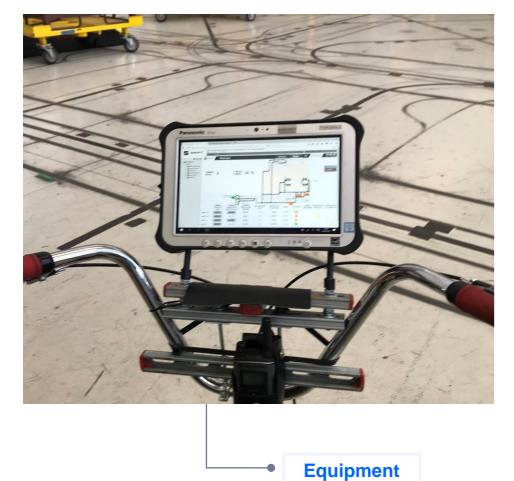
¿What do we consider digital transformation?

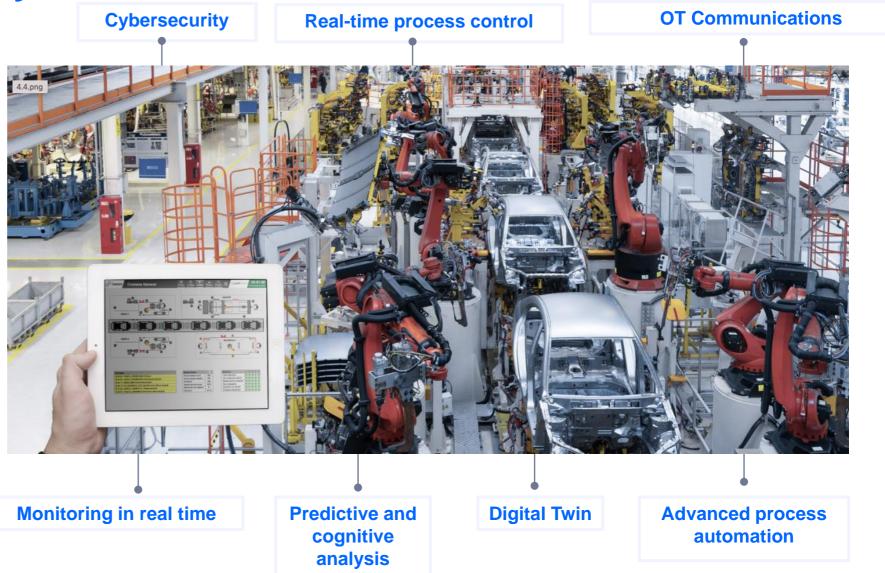






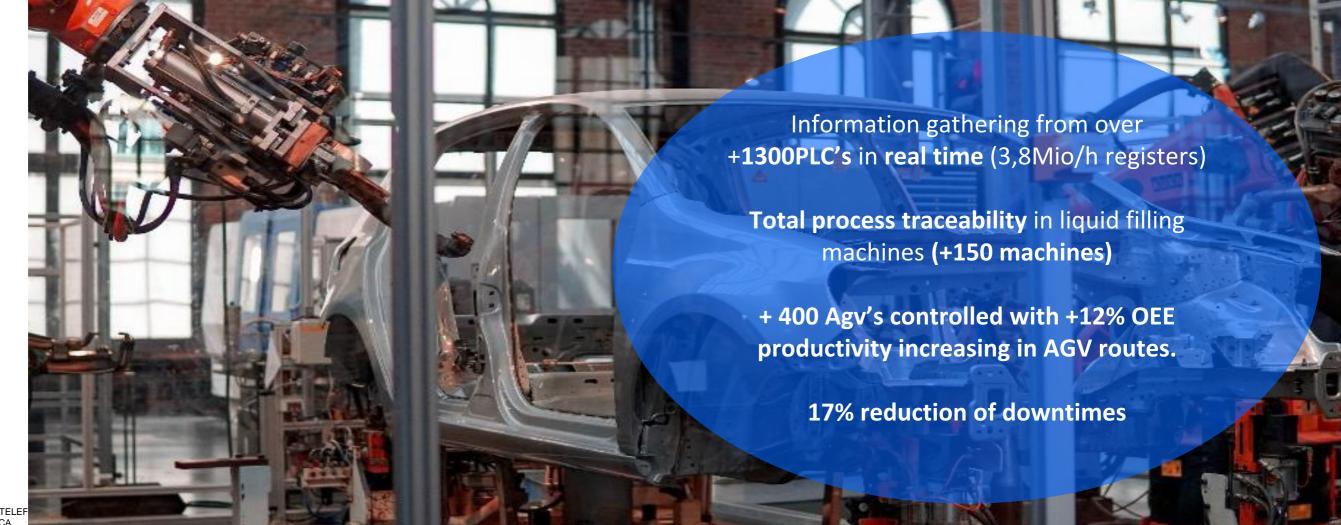
¿What do we consider digital transformation?





SEAT

SEAT Martorell use case



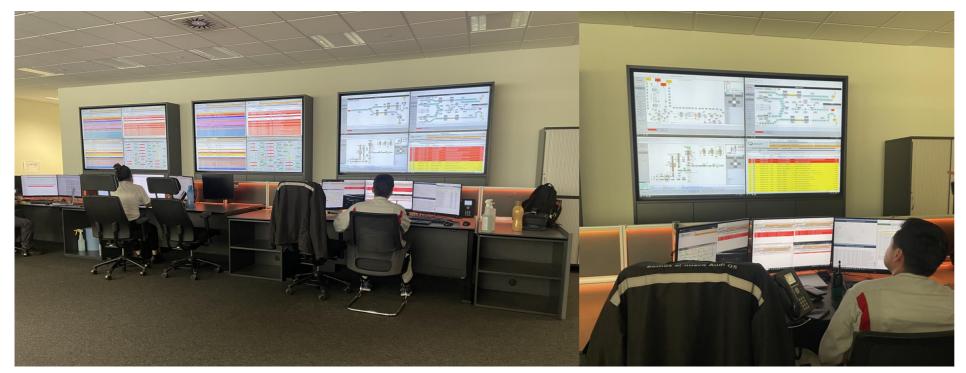


Now... ¿We are helping to Digitise and transform SEAT processes?



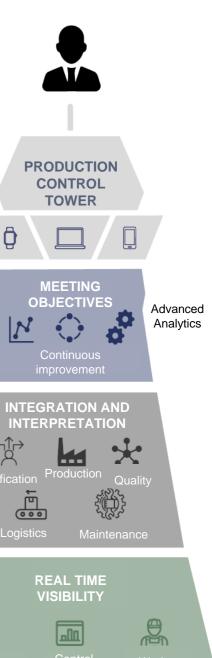


Worldwide rollout: Global Data Standardization based Central Monitoring Tool



Control room at the México AUDI plant in San José Chiapa







Decision making

> Support Decisions

Information analysis

Data acquisition







"Data has become one of the main assets of companies"

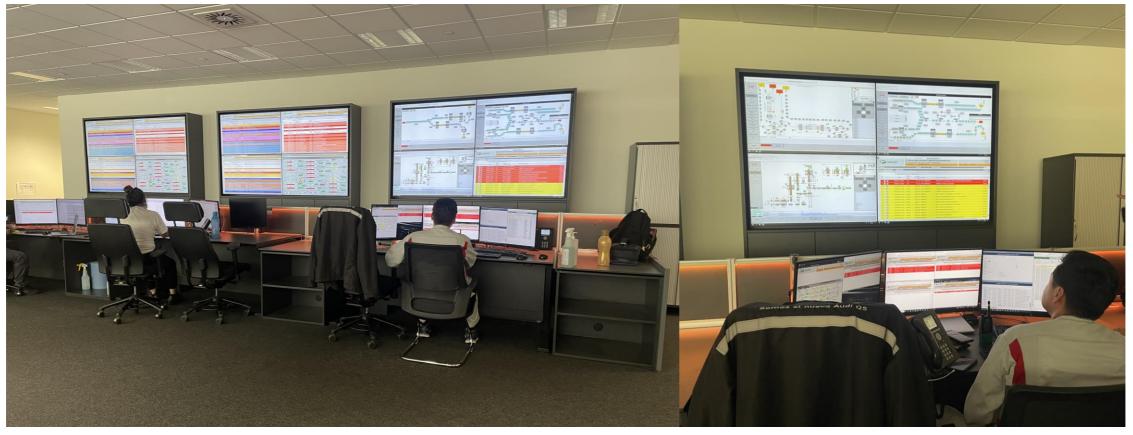




"The company that best manages the data derived from its productive processes, will have the chance to be better than its competitors "



Worldwide rollout: Global Data Standardization based Central Monitoring Tool



Control room at the México AUDI plant in San José Chiapa



Why? Benefits

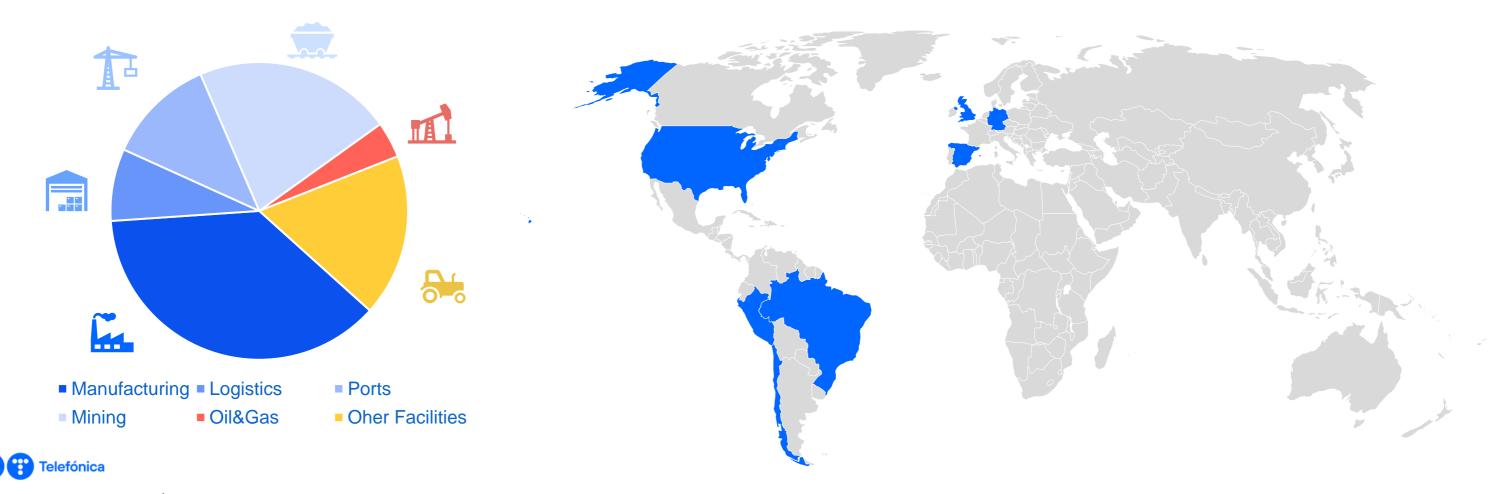
- Ultra low latency
- More Bandwith
- More Efficiency
- Ensure and maximize quality service





Our Private Network deployments around the world

More than 50 projects to date spanning a wide range of industry sectors



South London and Maudsley (SLAM) NHS Foundation Trust



The UK's first 5G-connected hospital

The problem

The need to investigate the efficiency, safety and security benefits of using smart, 5G-connected technologies in NHS hospitals

The solution

Use of smart, 5G-connected technologies in NHS hospitals – including IoT (Internet of Things), AR (Augmented Reality) and AI (Artificial Intelligence).

The outcome

Our Private 5G network reporting benefits of improved productivity & patient care with reliable connectivity



"We are proud to be partnering with Virgin Media O2 Business to create the UK's first 5G-connected hospital, which enables us to use digital innovations to improve patient outcomes. This is a very exciting step forward."

Stuart MacLellan, Acting Chief Information Officer at at SLAM



British Sugar



The UK's first multi-site private network

The problem

A lack of fast, site-wide connectivity was impacting productivity at British Sugar's main UK factories

The solution

Close cooperation between Virgin Media O₂ Business and British Sugar teams led to the design of a dedicated private network

The outcome

Improved health and safety and security, increased productivity and efficiency with a secure private network



"Previously we needed someone in the control room and someone who could walk around the site. Now we have one person who can walk around the site with the control room in their hands."

Paul Hitchcock Head of Engineering & Technology, British Sugar



British Sugar case study: Providing a dedicated 4G private network



