



DEFENCE AND SPACE

# TO Innovation

Connectivity/Interoperability Priorities

July 2021

**AIRBUS**



Airbus Defence and Space delivers a wide range of products & services to their customers through the Operations perimeter. In these highly heterogeneous facilities the use of digital technologies offers great opportunities to improve working conditions, efficiency and flexibility. Specifically the use of IoT based applications can help to e.g. gather data, facilitate decision making and improve production quality. Special attention is required for the secure and compliant application given the special business background.

# Content/Overview

(I)IoT – (Industrial) Internet of things

1. Introduction with diverse DS Operations Landscape in terms of sites/products/systems
2. Innovation Strategy with planned IoT activities
3. IoT enabled use cases
4. Security aspects & Summary



# One Prime Operations

Central functions inside Operations

**Quality**

and

**Procurement, Supply  
Chain & Logistics**

together with

**Manufacturing**

delivering products and  
services in four areas



## FALs

*Final Assembly Lines for A400M,  
Eurofighter, MRTT, LTA*



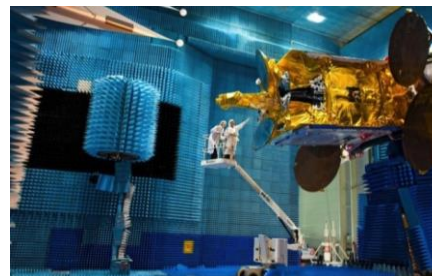
## MRO

*Maintenance Repair and Overhaul for  
Spanish and German air forces*



## Plants

*Component manufacturing and  
assembly for Airbus Commercial and  
Defence & Space, Ariane, Boeing,  
Dassault*



## Space

*Satellite structure and payload  
manufacturing, ENS & Telco satellite  
assembly, integration and testing*

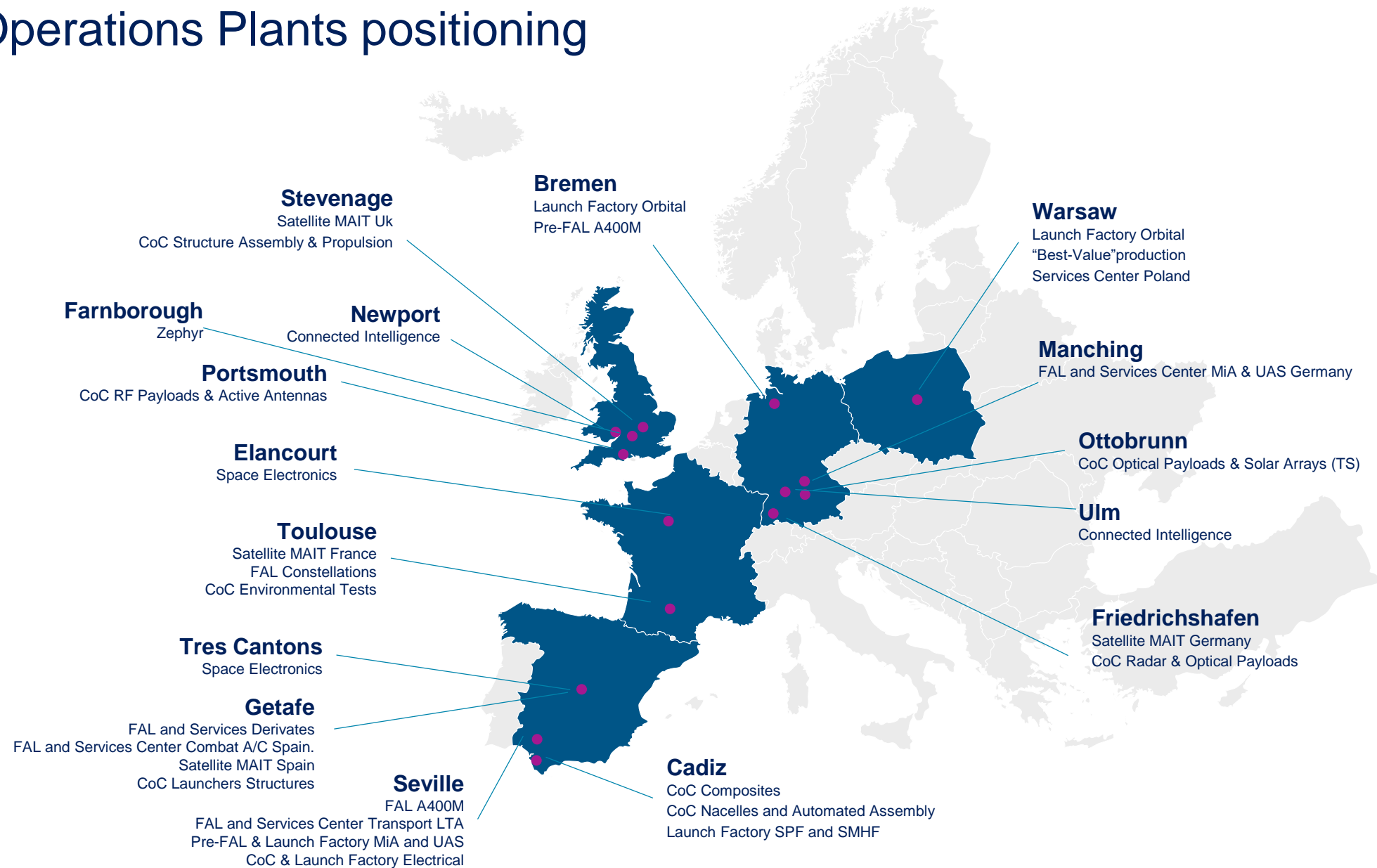
# Defence & Space Operations Overview

~9500 FTEs

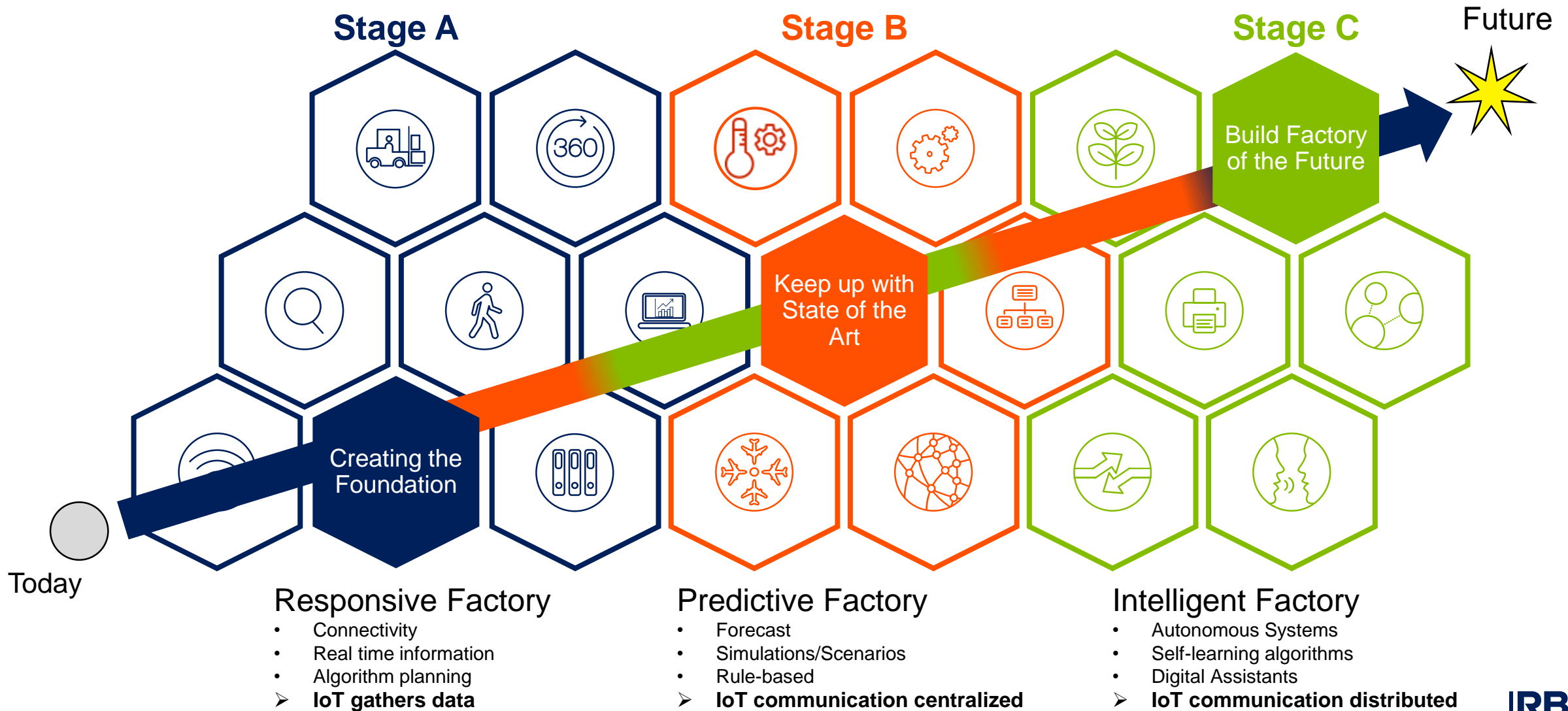
12 industrial sites

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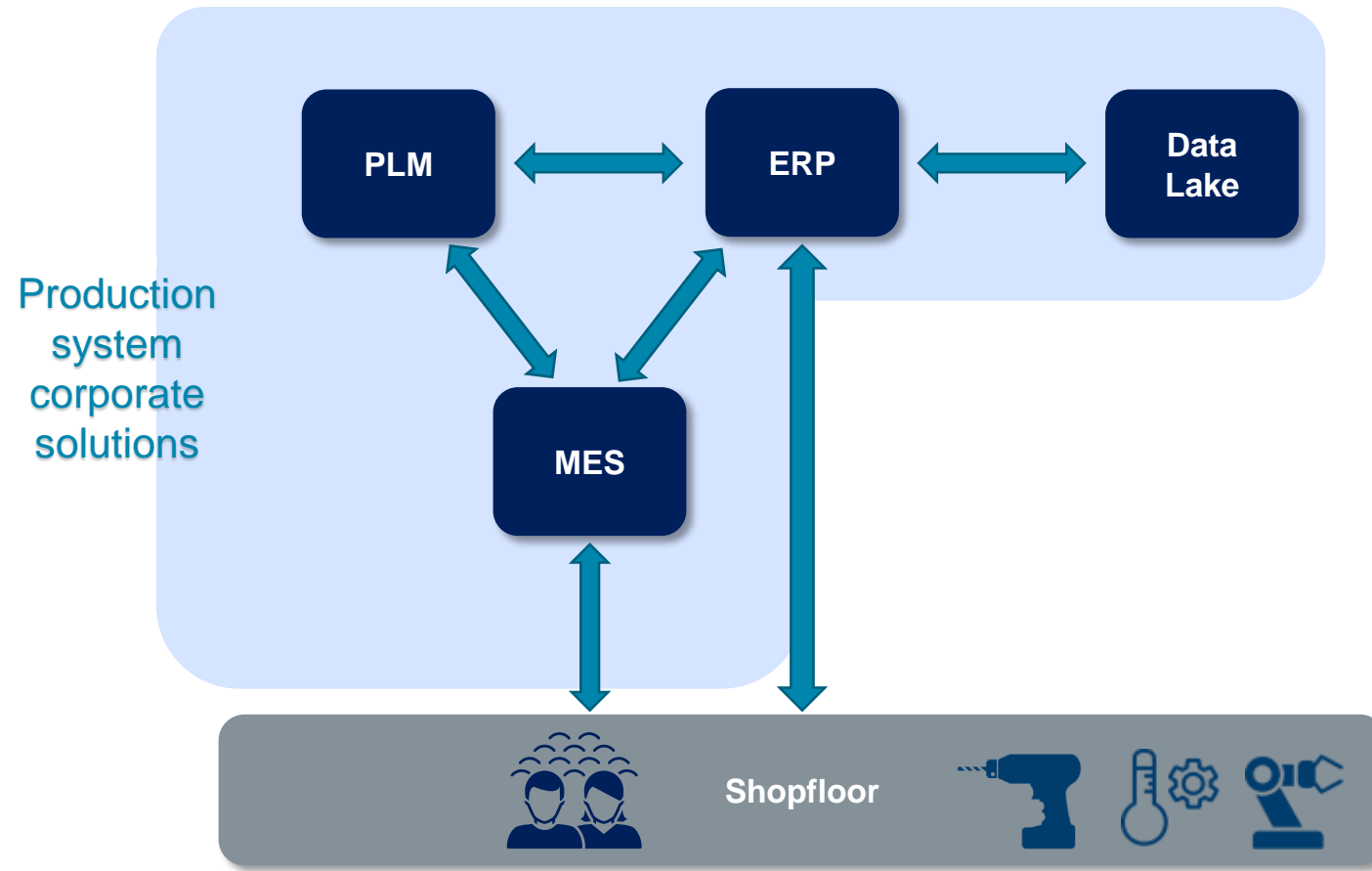
# Operations Plants positioning



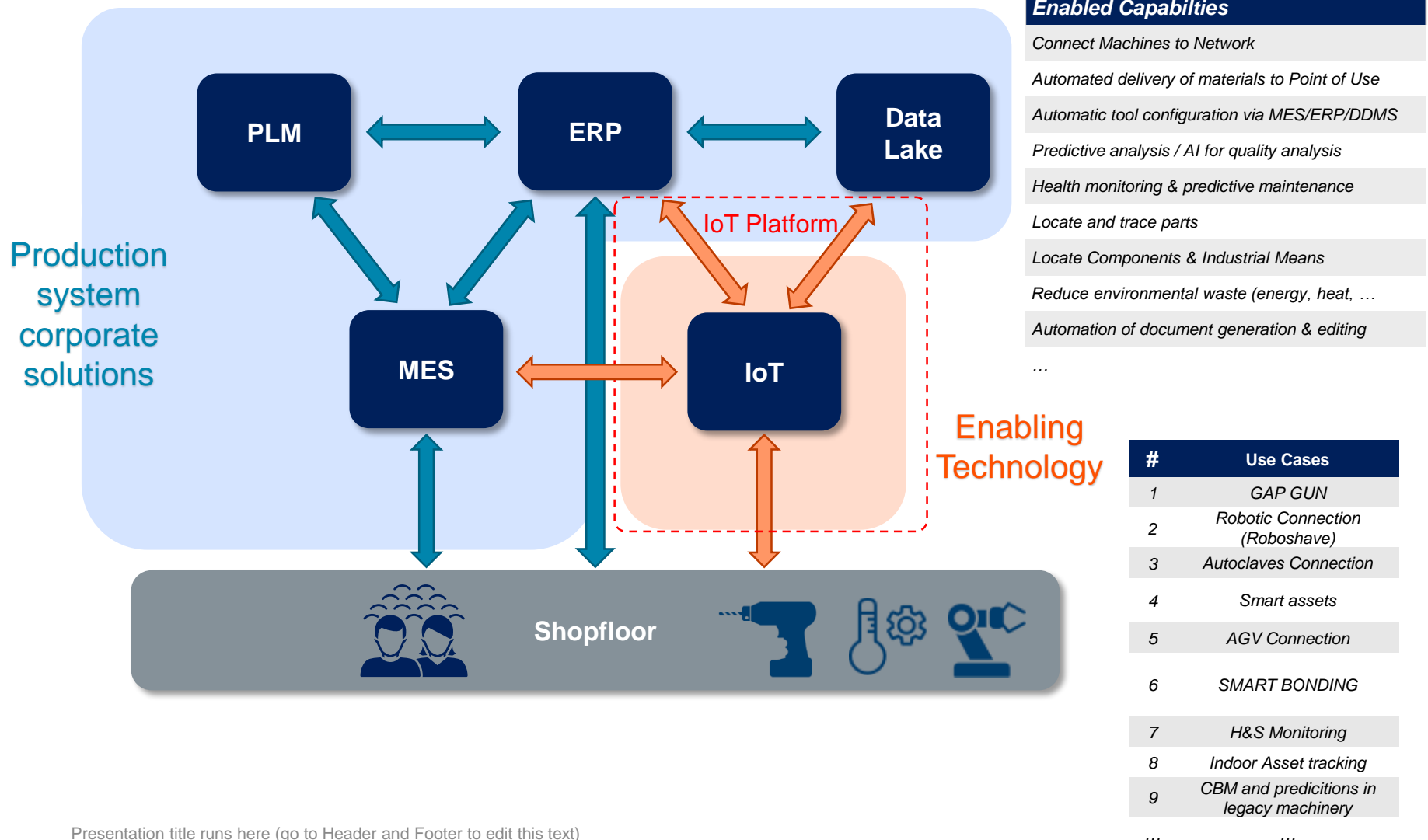
# Strategy for transformation and IoT application



- Potential Enabled capabilities based on IoT



• Potential Enabled capabilities based on IoT

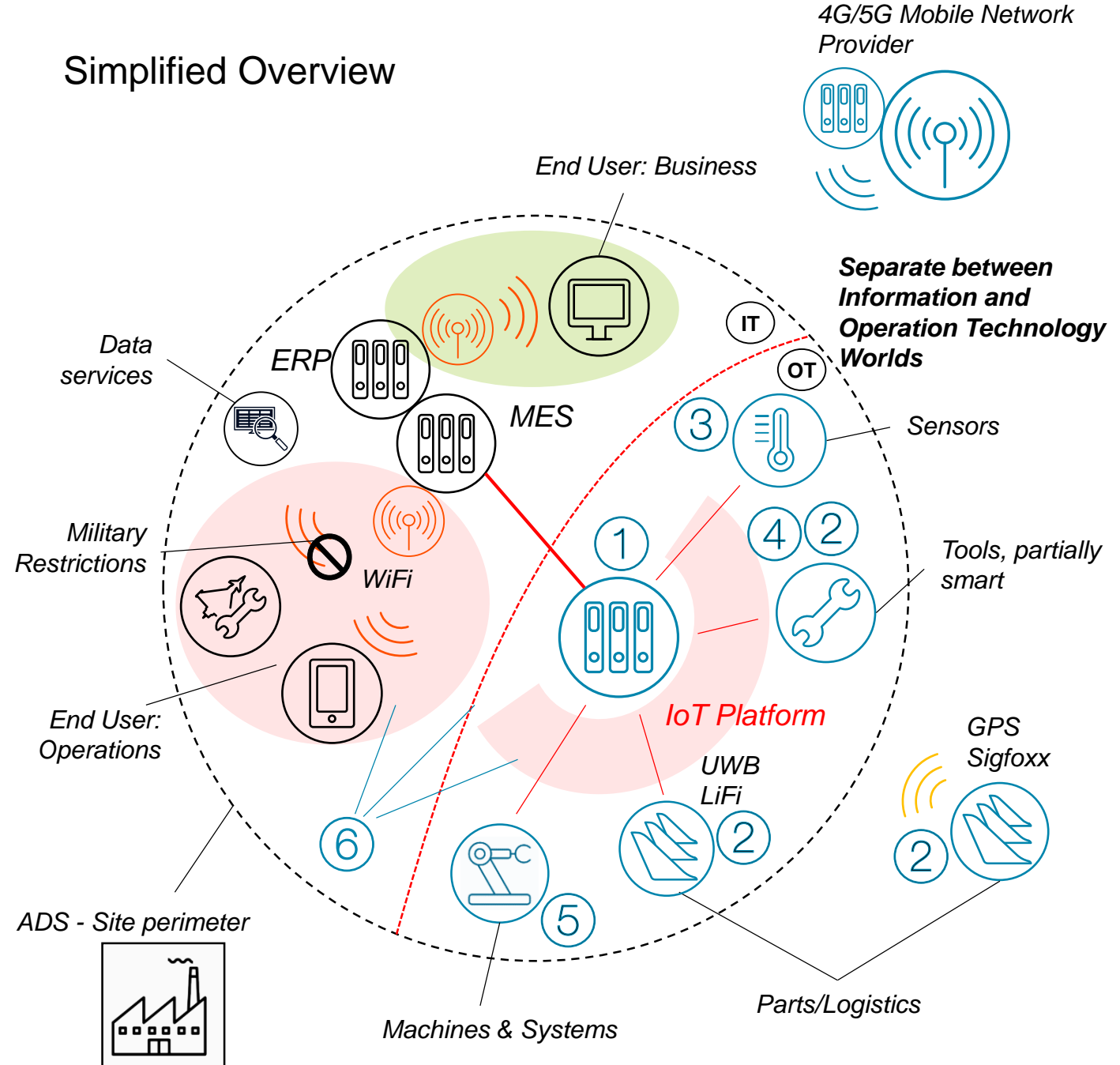




# IoT Needs building on security

- 1: Have one universal IoT Platform
- 2: Have a solution for tracking parts (onsite and through the supply chain) and industrial means
- 3: Ability to connect sensors monitoring all resources (machines, buildings, etc.)
- 4: Configure tools and record measurements
- 5: Capability to connect and control all relevant machines, legacy or new
- (6): Provide the connectivity to enable these capabilities  
→ Legal limitations regarding data classification and use of wireless technologies

## Simplified Overview



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Thanks !