The Industrial challenge at Airbus - Production System Excellence as an enabler for continued success

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Setting the scene

First 100 days’ impressions:
• Passionate people with excellent industrial expertise
• High complexity & highly customised products
• Complex and partly challenged supply chain

Action fields:
• Keep safety and quality focus
• Continue to grow Airbus Operating System (AOS)
• Simplification, Empowerment and Accountability
• Develop the industrial flow
• Digitise and automate in a people centric way
Rising to the challenge

- Moving towards an end-to-end industrial flow
- Ensuring the supply chain can sustain
- Looking more into automation and robotics
- While maintaining the highest standards of quality and safety
Our vision for the future of manufacturing

1. Operator-centric production system

2. Operational excellence: Airbus Operating System

3. Industrial system design including digitalization (i4.0)

4. Co-design of product, production and services

Key aspects:
- Workplace design
- Digital continuity
- Automation
Workplace design: safer, easier and sustainable

- Health, safety & ergonomics
- Workers supported by smart wearables
- De-Carbonisation of production

Exoskeletons available in plants and FALs

Biomass boiler Toulouse

Smart glasses for equipment installation
Digital continuity: organising end-to-end flow

1. Product Design
2. Production
3. Services

DIGITAL CONTINUITY across the whole Product Life Cycle

PDM: Product Data Management
ERP: Enterprise Resource Planning
MES: Manufacturing Execution System
SKYWISE
Automation: continuously optimising production

- From heavy automation to light and increasingly collaborative robots
- Materials to point of use
- IoT-based transparency for materials: real-time tracking and alerts
- Logistics Mobile Terminal: reporting logistics in real-time
- Skywise in production e.g. for quality management
DDMS: preparing the next industrial leap

• Developing a digital and integrated industrial system

• Using modelling and simulations for the design of the production system

• … to move towards fully deployed Digital Design Manufacturing & Services
Summary and key take-aways

• Competitive challenge ahead – industrial performance will make the difference

• Aerospace production will continue to require a high manual work content

• Basis for further and lighter automation in Airbus:
  • Co-Design and Design for Manufacture and Assembly (DfMA)
  • Digital Continuity across the whole Product Life Cycle
Thank you!