

We DEVELOP



SMARTMIXEDREALITY

Push your efficiency by enhanced reality

SmartMixedReality opens a new stage of technical developments into the manufacturing, inspection and maintenance performance. It obtains an interactive and digital exchange of work instructions between engineering departments and shop floors. Non-conformities management can be simplified through paperless work.

Benefits

Efficiency

- Fully digitalized production by visualization of installing/inspecting parts with additional information to avoid paper-based work-description
- Usage of mixed/augmented reality to describe working procedures
- Hands free working by usage of end-devices like HoloLens
- Smart instructions to create step-by-step guides and processes
- Smart localization and mapping of the right information visualized at the right position
- First time right by clear visualization and instructions
- Easy reporting and management of non-conformities with rapid feedback loops
- Facts & numbers: saving of 150 hours for inspection of 2200 wires of each aircraft (600 to 450 hours, Source: Airbus Group)

Flexibility

- Highly adaptable to custom needs
- Independent deployment of use-cases by customers in-house engineering teams
- Implementation without specific IT knowledge
- Wide range of application areas in the production flow: manufacture, inspection, maintenance
- Directly overlay visualization of all mandatory parts

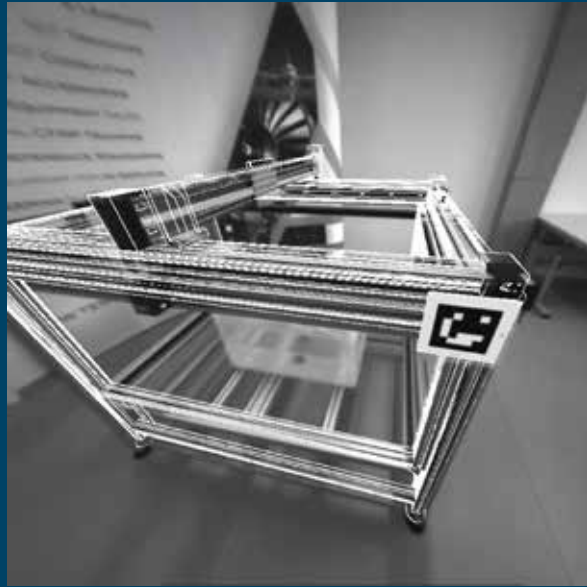
Traceability

- Simultaneous documentation during operation
- Full overview of all planned and performed tasks

Reliability

- Robust system – successful implementation in many Airbus shop floors since 2012 (over 800 users)
- Increased quality of installation/inspection process

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Features

- Smart Instruction – Application in step by step commands
 - Guide your users with Mixed Reality instead of paper based procedures
 - Guided inspections possible by requesting users input (e.g. measurements data)
- Definition of digital mixed reality based work programs for Inspection & Installation
- Easy to integrate in existing shop floors due to user friendly design
- Variance comparison by visualization of the target state: as designed / as built comparison
- Multiple end devices supported:
 - Tablets
 - HoloLens 1 & HoloLens 2
- Geographical localization by modern tracking systems

Technical specifications

Operation system: Windows 10

No dedicated server required

Multi-device support

- Tablet (no specific hardware required)
- HoloLens 1 & HoloLens 2

Tracking camera available