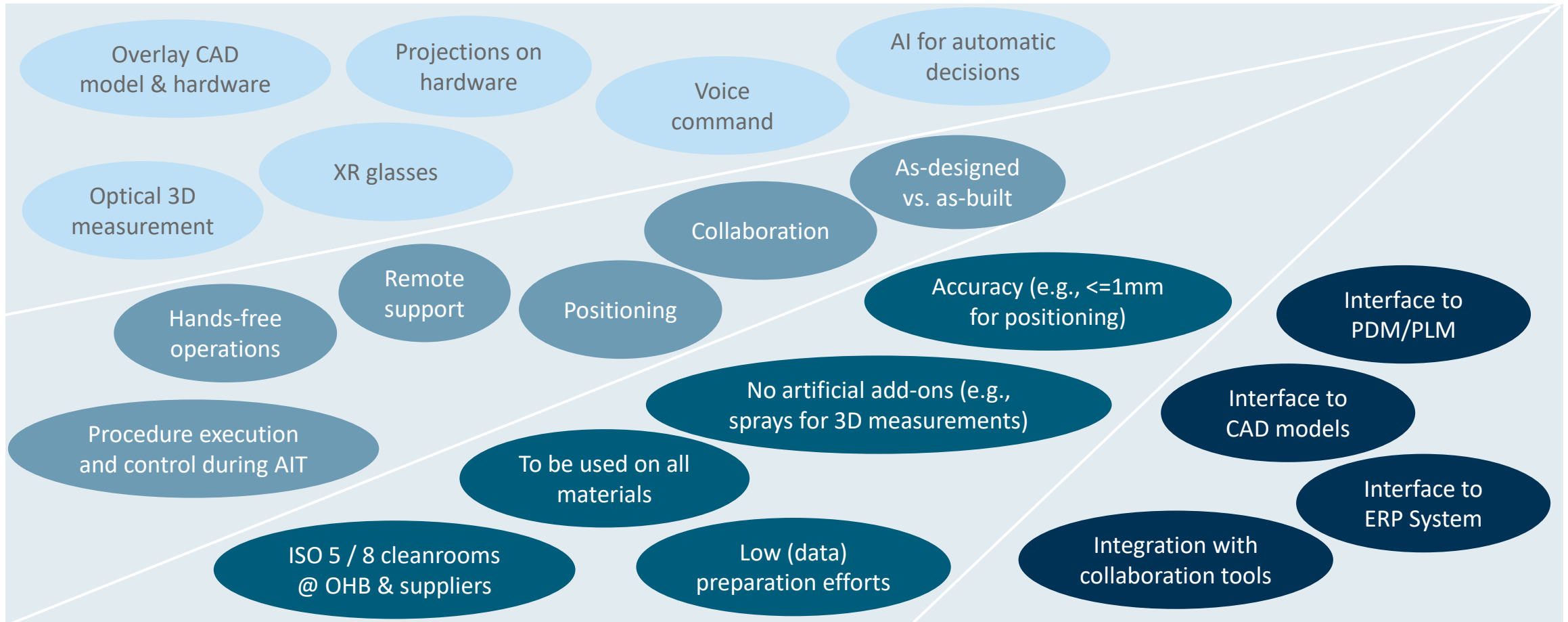

XR TOPICS @ OHV SE OVERVIEW, CURRENT ACTIVITIES & LIMITS

ESA-WORKSHOP ON XR 11.-12.12.2023@ESTEC

M. TAUSCHE, D. ESSER, R. HOHMANN FOR THE XR CENTER OF COMPETENCE (XRCC), 29.11.23

Technology

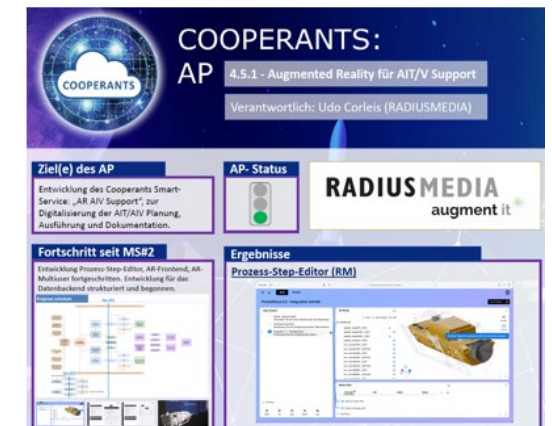
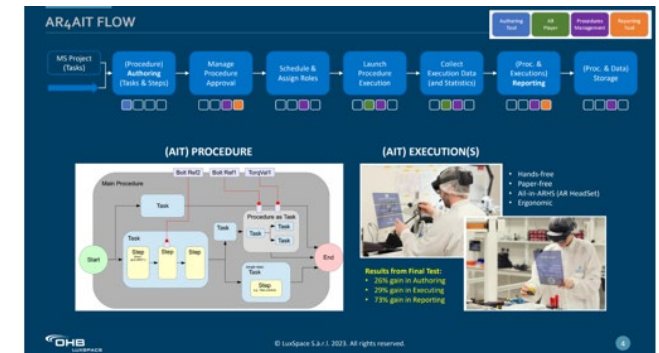
Use Cases



Applicability to Materials, Processes and Environment

Integration with existing IT landscape

- **New XR Center of Competence started in 2023**
 - Representatives from different OHB companies (e.g., LuxSpace, OHB DC, OHB Italia, OHB ITS, OHB Sweden, OHB System etc.)
 - Members are from different disciplines: Engineering, IT, AIT, Quality etc.
 - Collection of use cases, ROI estimations and preparation of lighthouse projects
 - Collection/distribution of information and internal consulting
 - Coordinator: Rainer Hohmann, Head of QA, OHB System, Bremen
- **Some current projects and activities**
 - AR4AIT and AI4AR @ LuxSpace (contact: Florio Dalla Vedova)
 - COPPERANTS; WP 4.5.1 'Augmented Reality for AIT/V Support' @ OHB System (contact: Christopher Ottens)
 - R&D 'XR FOR QUALITY ENHANCEMENT AT AIT' @ OHB System (contact: Rainer Hohmann)



- **Accuracy and projection quality**
 - Accuracy of XR glasses or beamers for positioning of items
 - Camera resolution of XR glasses
- **Handling**
 - Battery life (some equipment consists of a hot exchangeable battery)
- **Efforts**
 - Efforts for the preparation of projections in case of prototypes
 - Adaptations in work preparation need to be addressed
- **Interfaces to existing systems (e.g., PDM/PLM, SAP)**
- **Security and IT security issues**
 - Cloud vs. on premises
 - XR devices in cleanrooms (cameras, microphones etc.)

THANK YOU!

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