Barriers to Adoption of Real Time AR-assisted Inspection for Quality and Compliance

- Category: Market Research

Current Situation

- There are more use cases for AR in enterprise than can be meaningfully compiled in detail, however, there are keyrequirements, patterns/characteristics of use cases that can be generalized as use case categories
- AR-assisted inspection is a use case category that has great potential for ROI across all industries but rarely documented/publicized
- Inspection use cases are not as widely implemented as step-by-step instruction delivery (task guidance), remote assistance and training
- Companies with AR deployments in the more popular AR use case categories could increase their ROI on AR if they were to expand their support for AR-assisted inspections

Problems this Research Would Address

- This project will identify features, KPIs and requirements for AR-assisted inspection use cases
- Providers of AR technology would have greater insights into inspections and industries that perform inspections before work continues, or require inspections to be documented
  - They can tailor their offerings to address the inspection use cases
- AR managers in enterprises that are deploying AR for first use cases would have deeper understanding of opportunities and barriers to AR-assisted inspection use cases

Possible Questions the Research Would Answer

- What is the state of the art? Where (companies, industries, etc) are AR-assisted inspection use cases currently implemented?
- Based on state of the art, what are the feature patterns, KPIs and requirements for AR-assisted inspection use cases?
- Who are the typical stakeholders that need to be educated and "on-board" for introduction and adoption of AR-assisted inspection?
- What other components need to be in place for these use cases?
- What are the key barriers for adoption of AR-assisted inspection and what are some of the strategies that have been shown to overcome these barriers?

Whose Problems Would this Project Address?

- *AR Technology Providers* would
  - Gain insights into AR-assisted inspection use case category requirements and
  - Be able to address stakeholders, provide ROI estimates and other information to reduce barriers to adoption of AR-assisted inspection
- *Enterprise AR customers* would
  - More effectively transfer or adapt existing AR procedures and technologies from existing use cases to AR-assisted inspection
  - Increase use case categories which leverage their infrastructure investments and knowledge about AR implementation (increase AR ROI)
  - Reduce time and costs of existing inspection processes, increase compliance and ability to document compliance

How would this research be conducted?

1. Desk research to identify
   a. Any products or services designed for technology assisted (or AR-assisted) inspection
   b. Any customers currently implementing these use cases
   c. Gaps in knowledge
2. Primary research with subject matter experts and inspectors
   a. Interviews
   b. Surveys
3. Analysis of data and compile trends about drivers and barriers
3. Prepare a report and set of recommendations to overcome barriers

Deliverables of this Project

- Research report
  - Features, KPIs and requirements for AR-assisted inspection use cases
  - Barriers to adoption of inspection use cases and how to identify/rank
  - Recommendations for overcoming barriers to adoption
- An interactive tool to assist with
  - Capture of pre-AR metrics (KPIs) to measure
  - Calculating ROI of AR-assisted inspection use cases
- A webinar