AUGMENTED REALITY FOR INDUSTRY

Technical data

Different devices can be used depending on the needs and on the budget: Hololens, tablet, smartphone

2 different solutions:
- Worker learning driven solution: can be easily customized by the client, less freedom
- Data visualization driven solution: more flexibility in what can be displayed but not customizable by the client
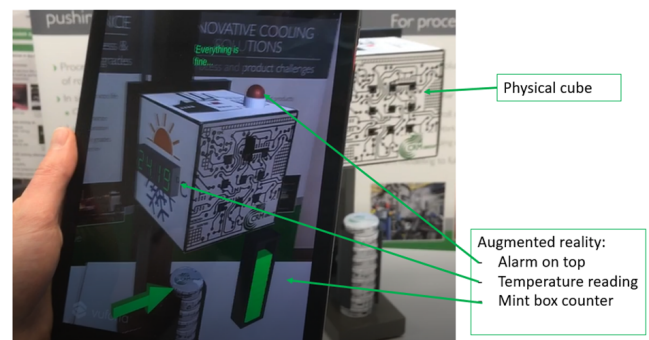
Purpose

The development of augmented reality applications in industry helps the operator to use complex equipments and to make interventions on them with the added functionality of a lot of helpful information and a personal reminder on what operation should be carried out next. This allows for better worker flexibility and easier training as a part of the knowledge can be transferred directly to the worker by the mean of the application. Skillful workers, are still needed to understand the equipments and describe their knowledge trough the application but they can pass they knowledge faster and more efficiently. Better data visualization is also possible trough the app. For example, IoT data can be located directly on physical device trough the app and allows the worker to visualize them in a fast, efficient way.

Results

2 different solutions have been explored at the moment. The first is more oriented on workers training and need to be easily accessible and customizable by the client to suits his requirement's changes in time.

Physical cube

Augmented reality:
Alarm on top
Temperature reading
Mint box counter

The second is more oriented towards data visualization and is less easily customizable but allows for a greater flexibility in the type of display for the different visualizations.