









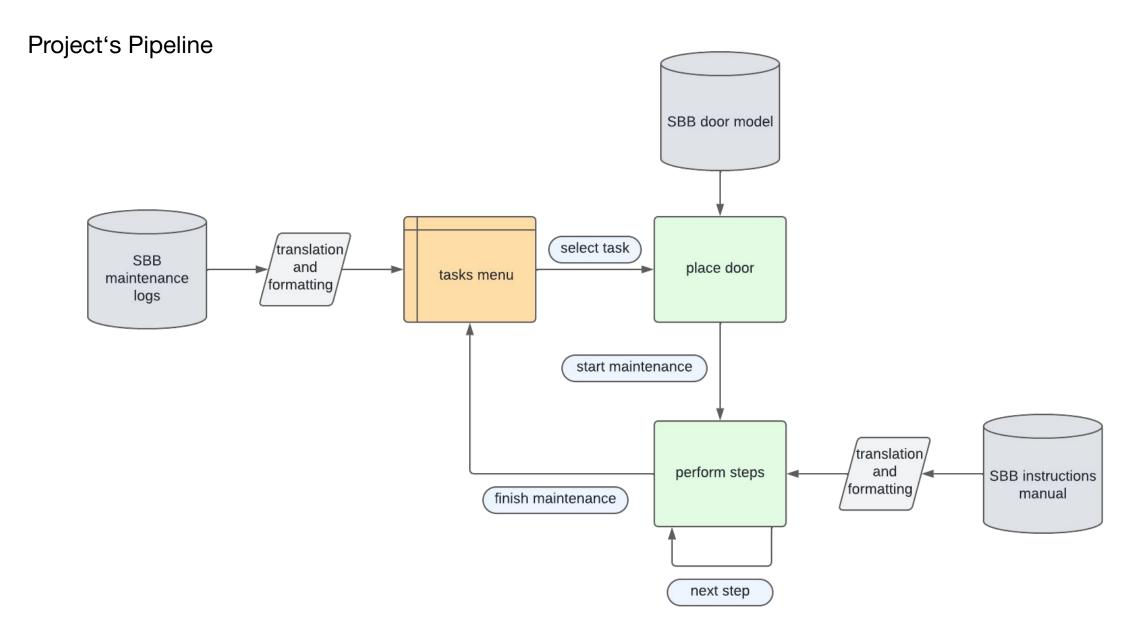
Context: Project's Goal

To develop an **AR** application for SBB operators using Microsoft **HoloLens 2** to streamline train **door maintenance** by **highlighting** relevant components and providing step-by-step **guidance**.

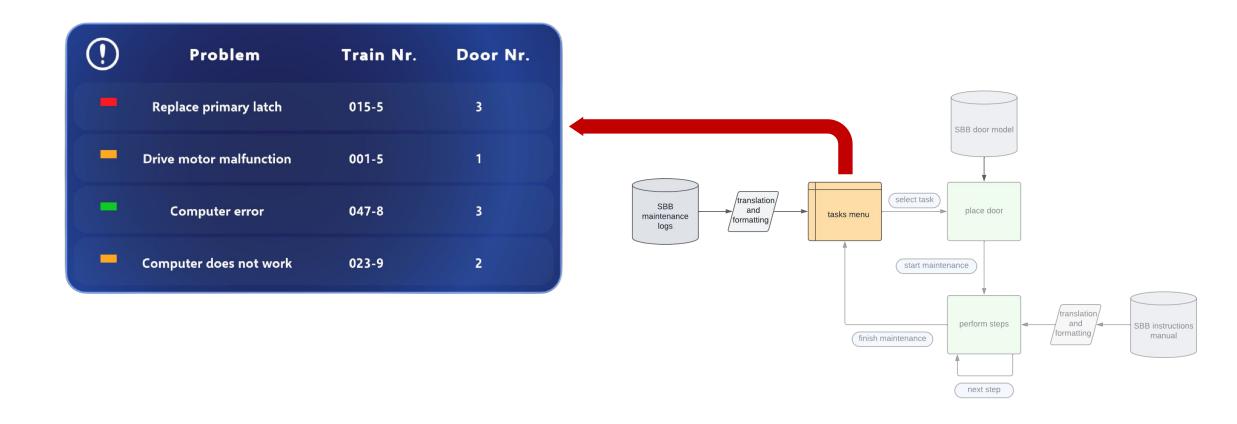






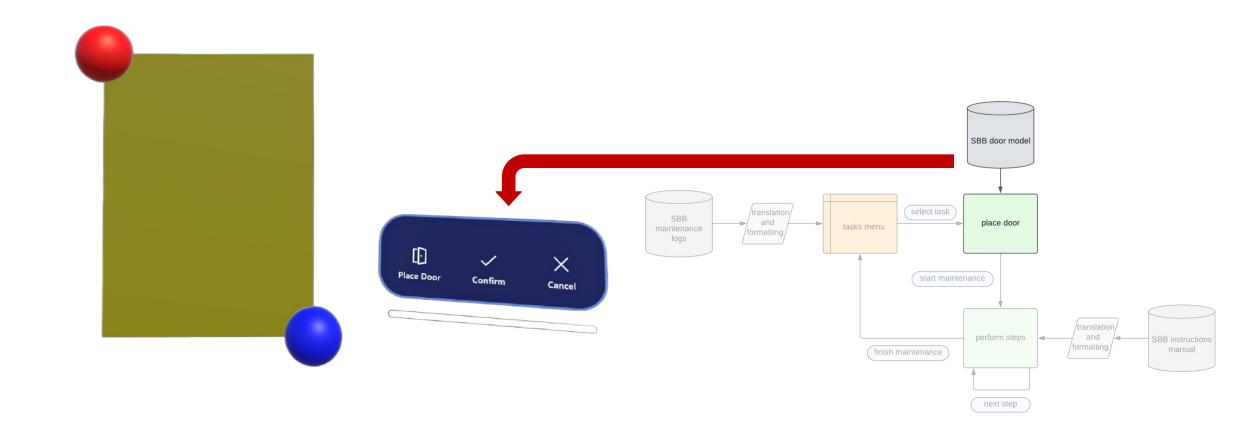


Tasks Menu: Results



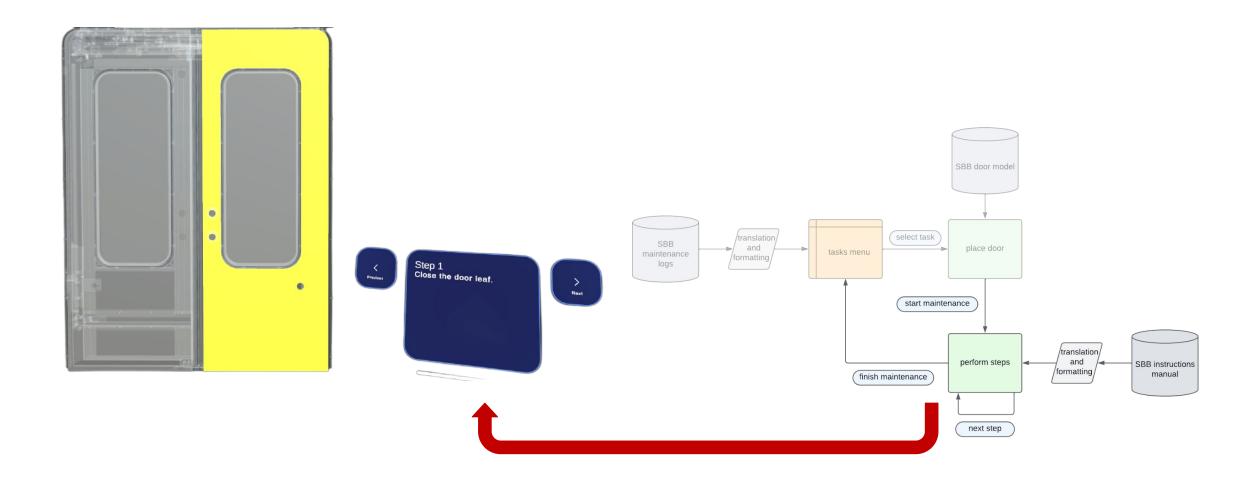


Door Placement: Results





Steps Menu: Results







Where are we?



Analyzing the model and selecting appropriate maintenance tasks.

Door Identification

Alignment of the door model with the physical door.

AR Interface for Maintenance

Design an intuitive and simple UI for Hololens 2.

Bi-Weekly Testing & Enhancements

Bi-weekly cycles of user testing and feedback collection to refine the application.





Where are we?

From the initial project proposal...

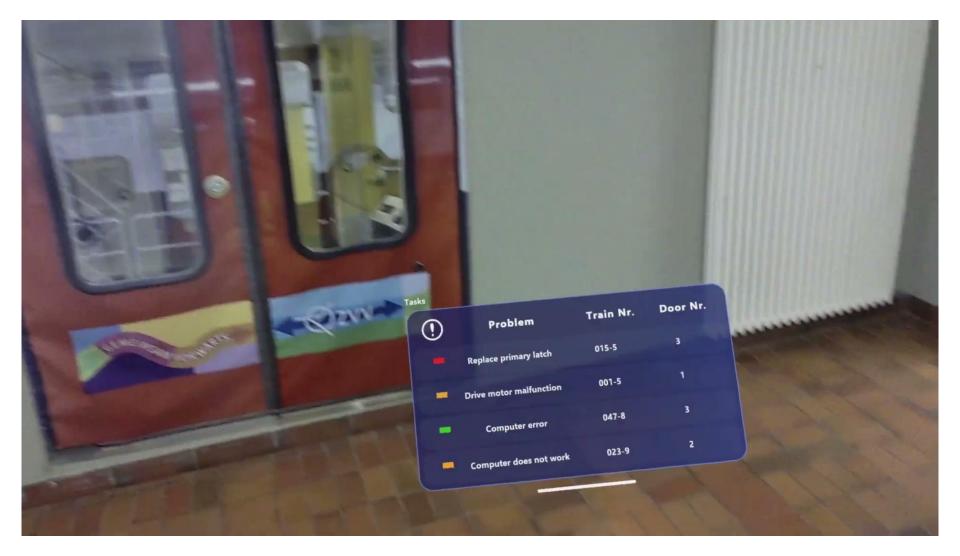
"We aim to present a functional prototype at the midterm presentation."





Current Demo







Future challenge: fix door model flickering









Next Steps



We have already started making hypotheses to solve the flickering issue, such as simplifying the door model, but we still need to find a solution.

Include small component

Explore potential solutions to improve the visibility of small components for operators.

Hands-free control

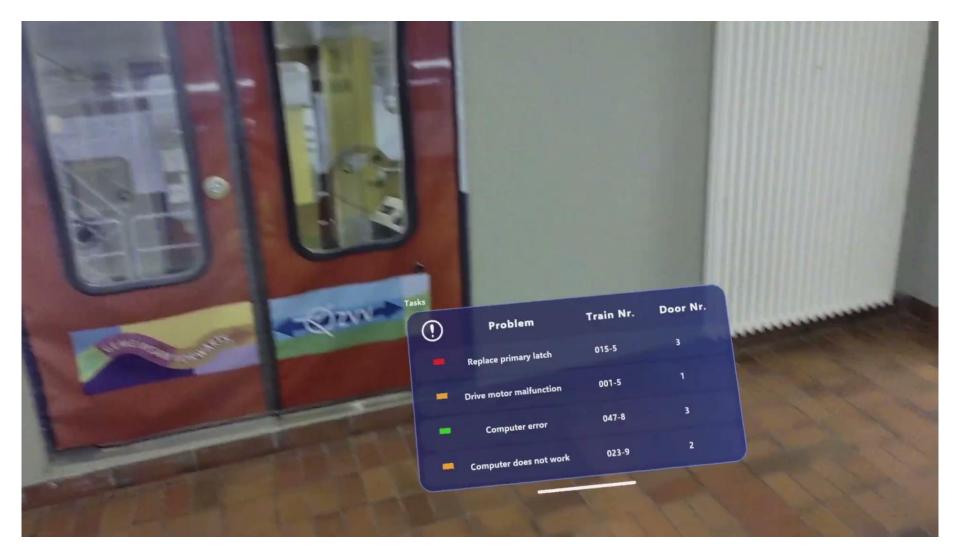
Enable operators to control the interface using eye-tracking, allowing seamless interaction without physical input.

Start user study at SBB

Try our interface on site and with real operators, collect KPIs and subjective app ratings.











Thanks for the attention!

