

## Public Summary

The VR-Lab is a modern design-laboratory that offers Virtual Reality and Augmented Reality functionalities for several aspects of the design process. It is a densely packed space full of technological equipment. However, as of now, it is just a set of independent devices placed into one room. In order to improve the way users can utilize all options the VR-Lab has to offer, a new system architecture has been created. This concept will serve as a basis for a possible new system in the VR-Lab.

To create this architecture the stakeholders issues and wishes were taken into account, and the areas of the VR-Lab were researched in terms of possible improvement. With a set of requirements in mind, the possibilities were analyzed. A general configuration was created, serving as a basis for the prototypes of the architecture and remote control server. This server is one of the building blocks for the final system. It was created to make it possible to remotely control both wired and wireless devices in the VR-Lab.