Augmented Reality for Sustainable Mines of the Future

The mining industry is one of the key industries for both global society and the global economy. However, it needs to improve drastically to meet increasing demands when it comes to environmental sustainability.

The mining Industry is gradually being digitalized in order to improve efficiency and reduce waste. One aspect of this is to ensure that the relevant information from the process is given to the operator in the right format and at the right time to improve decision making.

Augmented Reality (AR) is defined as a possible ICT-based support tool for human operators. With AR, virtual information is combined with the real world in real-time.

The aim of this project is to review possible applications of AR for the mining industry, looking into the different technical solutions for how the information can be presented to operators and plant managers, such as with tablets or AR glasses, and to develop an implementation that demonstrates a possible application.

Literature recommendation: