



Event „The construction side of the future“

The construction side of the future“ was the title of the event, which was held by Fraunhofer Italia on 1st February 2017 in Bolzano, together with the Local Association of Trades and Service Providers Ivh. The topic of the event was the digitization of the building sector and the changes that will be accompanied by it. The audience consisted of numerous South Tyrolean companies, including many handicraft companies.

After a short presentation of the Research Institute Fraunhofer Italia by the scientific staff, the status quo in the construction sector was presented, highlighting the problems and challenges that this sector already faces. A possible answer to these challenges is the digitization of the construction sector with its several current megatrends such as Building Information Modeling (BIM), Virtual Reality (VR) and Augmented Reality (AR) that were presented to the audience as well as their application possibilities in the construction sector.

The research project ACCEPT with its applications was presented in the main part of the event. At the end the applications could be examined and tested by the participants, the feedback being very positive.



Three main pillars

The ACCEPT system is based on the three main pillars of knowledge transfer, coordination and quality control. Based on these pillars, the three applications Construction Operator App, Sitemanager App and Dashboard are being developed. These applications are tested and validated in pilot projects throughout Europe. The validation is carried out in cooperation with the user partners at the construction sites. The first test phase has already been successfully completed.

The applications in detail

ACCEPT consists of a total of three applications that communicate with each other:

SiteManagerApp, SiMaApp for short: this is an app for tablets such as Project Tango and smartphones for coordinating work on the construction site. In concrete terms, SiMaApp is used to control the construction progress in real time, to carry out quality control, to overlap and visualize 3D models on real objects and to perform laser scanings in 3D.

Construction Operator Assistant App, for short CoOp App: this is an app for Smart Glasses, for displaying information with augmented reality in order to have a more efficient knowledge transfer. The application can be used by foremen and workers on the construction site to visualize various information. These include assembly instructions, technical data sheets, execution plans and design details as well as virtual notes or post-its.

Dashboard: this is a web-based app designed for the computer, to monitor the progress on the construction and to control the quality of the work.



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