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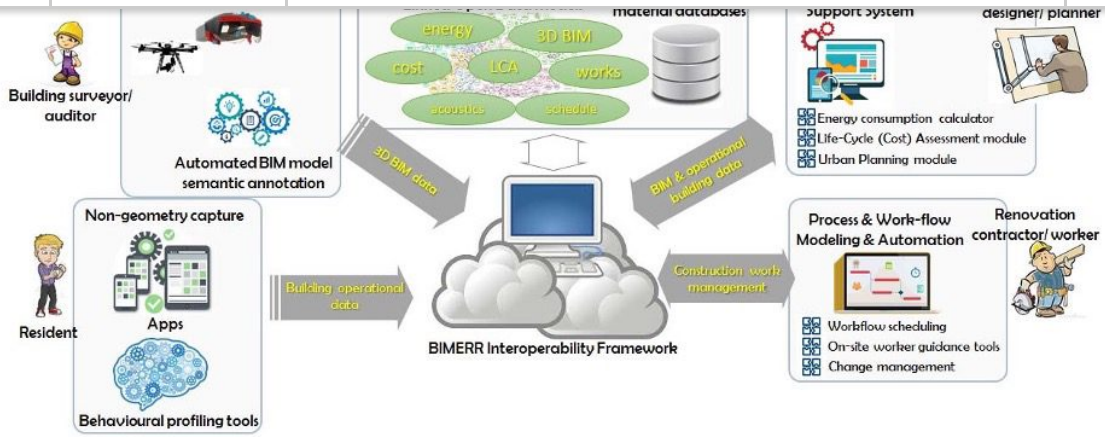
NEWSLETTER #5

MARCH 2021

Latest Update: All BIMERR components have released their first version to support the pre-validation deployment and testing activities. Final versions will be issued in June 2021 allowing the evaluation of their performance in real renovation projects.

THE BIMERR TOOLKIT IN A NUTSHELL

The BIMERR middleware handles the IoT data and acts as the central Identity Provider, providing information about the user profiles. The IoT data are processed by the PRUBS component to generate systems usage profiles that mimic the occupants' behaviour, stored in an obXML file. The Scan-to-BIM tool algorithms are applied to generate the as-is IFC4 file. Subsets of the IFC4 file are used by the BICA application (to allow the occupants to upload information that cannot be captured by any other means) and by ARIBFA that supports on-site staff to annotate further information that the Scan-to-BIM does not manage to generate. RenoDSS utilizes the IFC4 and obXML data and initiates the evaluation of candidate renovation scenarios. The RenoDSS user is able to select the renovation scenario that meets his/her requirements. Relevant renovation KPIs along with the respective IFC4 file are then provided to be queried by the PWMA toolkit that is responsible for reporting back renovation time and cost KPIs and monitoring the progress of the various renovation tasks. The BIMERR Interoperability Framework is the central data hub of the system, receiving data from the other building components of BIMERR, semantically linked and stored in appropriate data models, and propagated to the relevant recipient components and applications as needed. The main data model employed to describe a BIM model is IFC4. Handling, validating, and managing the internal structure of the BIM model is handled by the BIM Management Platform.



The mission of the BIMERR project is to design and develop an ICT-enabled Renovation 4.0 toolkit comprising tools for Architecture, Engineering & Construction stakeholder support throughout the energy efficiency renovation process of existing buildings.

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