

Knowledge Management in BIM Systems

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Abstract: Recent development in the field of Knowledge Management with special focus on managing large projects brings new possibilities for Building Information Modeling (BIM) tools. BIM itself contains huge potential, how to increase effectiveness of every project in its all life cycle. It means from initial investment plan through project and building-up activities to long-term usage and property maintenance and finally demolition. Focus on sharing data – information and knowledge is described. To combine semantic approach (employing ontologies and Topic maps) and support coming from extended usage of metadata is intended basis of the way forward. Crucial for success will be finding way how to gather information of real expectations and desires of final users in terms of how could they benefit from managing long-term projects, covering whole life cycle in terms of sparing investment money and other resources. BIM is not described as a tool, but PROCESS, how to create, gather, share, and use properly information and knowledge through whole life cycle of investment process.

Keywords: Building Information Modelling, Topic maps, Ontologies, Developmental state, Building Life Cycle, Metadata, Facility management

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