

The Impact of Using Building Information Modeling Technology in Construction Projects Management

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Abstract : This research links the use of Building Information Modeling technology in constructions and infrastructure projects, starting from the moment when considering the establishment of a project to demolishing or renovating it, going through the design work, planning, procurement and implementation. BIM Software's which used are Revit, Navisworks and Asta Project in the case study for the Atletico Madrid Stadium project (Wanda Stadium). Also, the project improves through various phases of construction (planning - implementation - management). Besides, the level of the details managed within this project advances gradually. In addition, the construction process problems become about 30 % less than before, resulting from high coordination between designing, implementation and follow through that is done by the project management office (PMO). The current disposition in the industry is to tightly manage the detail contained within the planning and coordination phases of construction, but we miss the opportunity to manage that data as it matures and grows into the execution and commissioning phases.

Keywords : construction management, BIM technology, planning, design, procurements, critical path method

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