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surement of the « maturity » of a building information model and the processes to create it Basically, the NBIMS CMM is a measurement tool of a BIM ...

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Mapping between BIM and Lean Construction Master thesis

Lean construction and Building Information Modelling (BIM) are central means of ongoing transformation in the construction industry. BIM consists of a set of tools, processes, and technologies, facilitated by digital machine-readable information about a building, which is able to provide the basis for new construction capabilities and changes in the roles and relationships between project team members (Sacks et al., 2018).

Lean BIM Construction: Benefits of BIM and Lean Management

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with 17 different use of BIM and 11 different Lean approaches, which could be adopted in construction projects in order to enhance the efficiency of the project and lessen the waste areas. Moreover, this study proves that all of the project stakeholders get several benefits of using BIM

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Lean Manufacturing - Organizing Drawers  
Walls - Kaizen Foam - FastCap  
*What is BIM (Building Information Modeling)?*

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Lean BIM adds value, reduces costs and streamlines the supply value stream for materials. It improves the flow of information and communication throughout. However, in order to apply BIM and Lean a few factors must be taken into account: Both BIM and Lean construction require leadership in each phase. Core processes must consider Lean Thinking and BIM requirements. BIM is about collaboration.

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Even though BIM is considered to be a supporting tool, different conceptually from Lean techniques which are managerial processes, mutual interactions are two-way interactions. Also, the BIM

level of maturity for each addressed area of interest has an effect on how useful and successful lean processes are implemented and used.

#### ~~BIM AND LEAN INTERACTIONS FROM THE BIM CAPABILITY MATURITY ...~~

Arguably, Design Management can be improved by utilizing new tools and methods introduced by building information modeling (BIM) and lean construction. However, in the projects that use BIM, roles of personnel, design methods and the practice of communication between designers often derive from the era of document based design management and can only be partially adapted to a new way of working.

#### ~~The Effects of BIM and Lean Construction on Design ...~~

Also another clear relation is the use of BIM software like Solibri Model Checker to detect clashes early on in design to ensure there is no wastages later in production. This act of reducing wastage is one of the principles in Lean Construction (Koskela, et al., 2002).

#### ~~Interaction between Lean Construction and BIM~~

Building Information Modeling (BIM) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

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#### ~~Mapping between BIM and Lean-Construction Master thesis~~

Previous case studies have proven that the use of BIM with lean practices during the construction phase improves the efficiency of planning. One of the major aspects of lean and BIM implementations is the support of the Last Planner®

System (LPS) and tracking of production progress to ensure unhindered execution.

#### ~~Lean-BIM Integrated Modular Construction Case Study~~

BIM can effectively support lean processes, such as collaborative planning or first run studies. The facility can first be constructed virtually for pruning out of planning problems. Moreover, auxiliary information systems can be used in connection to BIM to enhance lean processes.

#### ~~The implementation of Lean Construction and BIM should be ...~~

Building Information Modeling (BIM) is seen as an emerging approach that will help the construction industry in achieving lean construction principles by eliminating waste; cutting costs, improving...

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Eastman et al(2011) defines BIM as “a verb or adjective phrase to describe tools, processes, and technologies that are facilitated by digital machine-readable documentation about a building, its performance, its planning, its construction, and later its operation.” The result of BIM activity is a ‘Building Information Model’.

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With BIM as the common tool that acts as a catalyst, a conceptual framework for lean and green integration is developed. This framework is tested using three case studies and findings reported in the paper. Preliminary findings show that projects that use BIM can more easily integrate lean and green and add value.

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