



AUTODESK UNIVERSITY 2015

CS11297

BIM to the Max: Applying Lean Construction to IPD Projects

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Learning Objectives

- The major differences of an IPD project
- Lean Construction Principles
- Maximizing the use of BIM in Highly Technical Project
- Demands of BIM in the FiM world
- Cloud storage and IP Concerns

Description

Learn how to utilize Building Information Modeling (BIM) and technology to the most opportune level on highly technical projects. We will discuss cloud storage and intellectual property issues, BIM tools, lean principles, paperless efforts, facilities management, and the integrated project delivery (IPD) project advantages and disadvantages.

Your AU Experts

Zane Hunzeker holds a Bachelor of Science in Engineering from Southern Utah University. For the last two and a half years has been with Balfour Beatty Construction working in the Virtual Design and Construction group in San Diego and is a Sr. VDC Specialist. Zane has more than four years of Construction Technology Implementation experience, and in the past few years has specialized in highly technical and highly collaborative projects ranging from Data Centers, Semiconductor Fabrication, all the way through to Higher Education.

Dusan Selezan holds a Bachelor of Science in Civil Engineering and a Master's degree in Construction Engineering from San Diego State University. For the last two years he has been with Balfour Beatty Construction, working as a Virtual Design and Construction Specialist. With more than four years of BIM experience he has diverse type of projects on his resume; from \$650 million hospital, to jails, schools and residential towers. He is a member of Lean Construction Institute and serves on the Board of Directors of Construction Management Association of America, San Diego Chapter. Dusan was also guest lecture speaker at San Diego State University and New School of Architecture.

This handout is intended to provide the basic information of the Class. Please read them before coming to the class if you are not familiar with the subjects.

In the class, we will discuss

Highly Technical Projects vs Commercial Construction

- a. Exploring the advantages and disadvantages of each type.

Lean

- a. Lean 101
 - i. Terms commonly used
- b. Kanban
 - i. Task Tracking Platform
- c. Last Planner
 - i. "Pull Planning"

IPD

- a. Discussion on getting the best value out of the contract type.
- b. Environment
- c. Needs of collaboration
- d. Psychology
- e. Mindset behind transparency
- f. Examples

BIM/Collaboration Tools

Paperless Construction Initiative

- a. Cost benefits
- b. Simplifying document management

Cloud Tools and IP Protocols

- a. IP Concerns
- b. Different Platforms

Q and A

