



Meeting the Demands of Today's Technology Driven Construction Projects

Steven DelBene, director of value added products and services for Williams Scotsman

Ron Perkins, director of business development for NRI

Learning Objectives

At the end of this class, you will be able to:

1. Understand the benefits of integrated technology on the jobsite and become familiar with products that are BIM ready
2. Improve workflow processes on jobsites - accomplishing tasks in real time and avoiding project errors and missteps
3. Enable jobsite mobilization, reducing document distribution costs, and providing greater control of project management expenses
4. Determine estimated cost savings from various technology products and services

About the Speakers

Steve DelBene is the director of value added products and services for Williams Scotsman. Steve is focused on sharpening Williams Scotsman's rollout and expansion of product and service offerings that complement the company's core modular space solutions. Steve joined Williams Scotsman in 1991 as a sales representative in the New York City branch. He opened and developed the Long Island branch in 1997, moving into the area with his family in 1999. Steve became the first branch selling manager for Williams Scotsman and experienced growth throughout the decade. He took on the role of regional sales manager for the Northeast in 2009, leading his team to year-over-year in leased revenue growth. Steve has a bachelor's degree in accounting from Manhattan College and has participated in the Leadership Training Program at the Darden School of Business.

Ron Perkins is the director of business development for NRI. Ron has been in the AEC industry since 1984, working with a number of organizations such as Autodesk, Construction Market Data, HP and as a principal of an AEC technology consulting firm, which was acquired by NRI. He has experience in every aspect of a construction project. He's worked closely with general and specialty contractors, architects, engineers, product manufacturers and their channels. His responsibilities at NRI focus on business creation and development in emerging technologies, strategic partnerships and mergers and acquisitions. NRI partnered with Williams Scotsman to develop techsuite™ -- successfully delivering BIM technology to remote jobsites. Ron has been a speaker or panelist at numerous McGraw-Hill, CMAA, Meridian, Oracle, AIA, ABC, AGC, CSI and other industry events. He is also a former US Marine.

Panel Overview

Over the past several years, the construction industry has adopted new technologies to improve project development and management. However, the temporary jobsite office is not keeping pace with the demands of today's technology-driven construction jobs. This session will provide best practices for bringing technology to the jobsite, tips for turning a standard field office into a smart jobsite office, and an overview of cost savings for all parties involved. The presentation will also include recommendations for incorporating BIM processes to help streamline jobsite documentation and lessen rework requests. The best practices shared will enhance jobsite collaboration and mobilization while providing solutions for technology challenges in the field. The presentation will conclude with a return on investment analysis for various products available.

BIM Adoption

Construction firms are often at varying levels of expertise with regard to BIM. This variance exists both within firms and certainly with various project team members. Determining just where everyone is with their capabilities is a critical factor that needs to be addressed early. A jobsite plan that clearly outlines how BIM will be used for the project will prove helpful.

Workflow

Fast-track, design build and BIM are all processes designed to reduce overall project time by overlapping the project design phase with the construction phase. Incorporating more collaborative processes with the entire design and construction team further simplifies the integration process at the jobsite.

Document coordination is a common challenge on a highly collaborative project. When projects are being designed as they are constructed the likelihood of error, such as someone building from an outdated document, is greatly increased. Incorporating the correct technology and workflows into the process can help alleviate this problem.

Jobsite Mobilization

Expedient set-up, configuration and training with project site equipment, such as hardware and software solutions, will help mobilize a jobsite quickly and efficiently. With increasing technology demands comes increasing coordination among vendors and suppliers to create the ideal temporary office environment. A systemized blueprint and standard will help recreate project success for each and every job.

Cost Savings from Various Technology Products and Services

A wide format plotter / scanner enables you to print only what is needed, when it is needed. This tool also lets you scan and organize paper documents received from sub-contractors regarding changes or clarification of submittals, further improving the efficiency and coordination among various jobsite teams.

In addition, large monitors allow team members to view drawings at full size. Large monitors are also ideal for viewing BIM models and project schedules.

Interactive touch boards take coordination and collaboration to a new level. Real time collaboration becomes easy and red lining or markups are captured as documents evolve.

Smart phones and tablets have multiple uses on the jobsite and help keep all team members connected and on schedule. A Wi-Fi enabled jobsite office and BIM kiosks help bring BIM models closer to the site where the critical work takes place.

Questions

Our panel participants, Troy Perkins from DPR Construction, Dustin Hartsuiker from Swinerton Builders, and Raquel Shohet from Hill International, will provide answers to the below questions.

1. Has your firm been involved in using BIM on projects?
2. Does BIM help differentiate your firm from the competition?
3. Does BIM help you win more projects?
4. Are clients willing to pay for this service?

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5. How has technology impacted the coordination of contractors and suppliers on the project schedule?
6. Has your firm invested in newer technology?
7. Have you had success getting subcontractors involved with the BIM coordination process on your projects?
8. Are you having success with coordination meetings at the jobsite?
9. What is the current perception within your company toward performing more projects with BIM?

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10. What have been your firm's critical factors in successful implementation of BIM? For instance, ongoing training and testing to develop staff.

11. What kind of an impact does BIM have on the project schedule?

12. What changed for your firm with respect to technology in 2013?

13. What plans do you have for 2014 and beyond?

14. What do you think are the future trends? Where do you think BIM will go?