

CS500946

Reduced Risk and Improved Productivity on CAHSR Using Autodesk Build and Autodesk Takeoff

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Learning Objectives

- Discover how organization and structuring of data using Autodesk Build can reduce risk.
- Learn how the use of Autodesk Takeoff improves estimating productivity.
- Learn how a non-traditional application solved a problem.
- Learn why planning and data organization is a must on large projects.

Description

Arcadis was able to reduce risk and improve productivity on the California High-Speed Rail project scope of providing independent cost estimates for hundreds of change orders. The small team of approximately 5+ individuals were desperately struggling to finding the data necessary to start performing takeoff on the Microsoft SharePoint system implement as the project document management platform. It was taking days for the team to locate the necessary drawing to begin, but further delays continued due to the lack of quantity verification automation. Needless to say, the team was not turning estimates of million dollar change orders around in the contract 3-week timeframe. Let us present how working with the end user, thinking differently about how to custom configure a digital solution and taking a chance on the new Autodesk BUILD and Takeoff solutions Arcadis transformed a panicked team into a calm work environment with an increased productivity of approximately 50 %.

Speakers



Kevin Lucht currently serves as a Senior Digital Solutions Manager for Arcadis in Tampa, FL. Kevin is a registered professional Civil Engineer in three states. He has thirty-five plus years engineering project production and project management experience in heavy civil engineering projects, as well as an expert with BIM applications and digital engineering systems. Kevin has worked with clients worldwide in the areas of Highway, Aviation, and Rail design. Kevin received a BS in Civil Engineering from the University of Illinois and started his career in the highway design field initially with MODOT and later with RS&H. Most of his engineering and PM career he served with CH2M Hill, HNTBA and Bechtel. Kevin has also worked for Intergraph and Bentley in their InRoads civil engineering group, as well as being a consulting project manager for numerous ProjectWise deployments to major civil projects and large AEC customers. Currently with Arcadis he has global responsibility for Digital applications and CDE systems, as well as providing digital application support to the PMCM group in North America.



Ann Blanchard has over 25+ years of construction experience managing complex projects and program from \$250K to \$1B. She is a team leader who is proficient at identifying critical scopes of work, developing risk mitigation strategies, driving schedules, pro-actively managing potential budget impacts, establishing document control protocols, and is ever conscious of safety risks. Ann is proficient at identifying and implementing digital project management solutions for project specific reporting workflows, single source of truth collaboration, timely issue identification and resolution, and asset management data collection. She is fluent in MEP, building automation and specialty gas systems relevant to hospital and cleanroom construction. Ann continues to mentor those within her scope of work about project management best practices with technology integration. A visionary of digital sustainability client offering, she is an integral part of the Arcadis global initiative customizing and beta testing productivity enhancing solutions. She looks forward to the next client's construction management challenge requiring a digital strategy to increase productivity and drive schedules.

Presentation Outline

Why Digital Software Application Doesn't Reduce Risk and Increase Productivity

- Takes too long for contract configuration.
- There isn't time to watch training videos when starting a project.
- The look and feel needs to be consistent for the inevitable project personnel turnover.
- Everything on one platform the allusive "Single Source of Truth that we are all seeking"
- Elimination of email communication outside of the platform. Risk goes up with information lost in an email chain that the right person wasn't cc'd on.

Who is Arcadis?

California Highspeed Rail Project

- Project Overview
- Arcadis Role

The Journey BIM360 to BUILD

Panic to Praise the "other" Six Phases of a Project

- Enthusiasm
- Disillusion
- Panic
- Search for the guilty
- Punish the innocent
- Praise and honor

Improving Productivity and Reducing Risk

- Autodesk BUILD
- Autodesk Takeoff

Did it work?