

Take a Load Off with DPR, Windover, and Arcadis

Nathaniel Coombs
Autodesk

John Prior
Autodesk

Learning Objectives

- Learn about emerging estimating techniques.
- See new upcoming features and updates to Autodesk Takeoff.
- See how industry leaders of all shapes and sizes are maximizing technology in preconstruction.
- Learn about the common industry tools driving new workflows.

Description

Technology for preconstruction has come a long way in recent years. The introduction of building information modeling (BIM), cloud-based takeoff tools, AI (artificial intelligence), and bidding platforms has shaken up the way estimating and preconstruction management operates. The phase of construction has finally exploded with new ideas around cost modeling, historic cost analysis, new methods of collaboration, and the convergence of 2D and 3D quantification. As you mix in the ideologies around the common data environment (CDE), all these improvements in cost planning are also able to inform decisions downstream in the field and upstream to the owner and client. This session will entail an open panel and discussion featuring estimators from DPR Construction, Windover Construction, and Arcadis. They'll share their experiences with the new age of estimating, and reveal how those benefits help drive their project efficiency. We'll discuss common industry challenges, expanding on these new ways of working, and highlighting all the technologies that make it happen. Join us!

Speaker(s)

			
Amr Raafat VP of VDC & Technology	Kevin Lucht Sr Digital Solutions Manager	Prashant Sharma Sr Estimator	Jourdan Trice Preconstruction Technology
			
			
	Nathaniel Coombs Senior Business Consultant	John Prior VDC Subject Matter Expert	
			

Moderator: Nathaniel Coombs, Senior Business Consultant - Autodesk



Nate grew up in Rutland, Vermont. He attended the University of Vermont, graduating with a BS in Civil Engineering with a focus in structures. Nate started his career with a small BIM start up called Assemble Systems as their first dedicated application engineer and went on to lead the Assemble team of engineers up until the acquisition by Autodesk. Nate was responsible for the support and workflow development of Assemble's largest accounts, while also leading the international expansion of the product since the acquisition by Autodesk. It was during his travels abroad where he realized his passion for sustainability could be tied to his work in Building Information Modeling. He continues to look at new ways to leverage technology to offset unsustainable construction practices, while also driving efficiency and collaboration throughout the entire construction life cycle. Since then, Nate has transitioned to a role as the Senior Business Consultant, where he has widened his focus and work more closely with Autodesk's largest customers. Nate currently lives in Boston, Massachusetts and enjoys photography in his free time.

Moderator & Presenter: John Prior, VDC Subject Matter Expert - Autodesk



John Prior is a Virtual Design & Construction Subject Matter Expert at Autodesk and serves as the Technical Sales Department Program Executive. John is passionate about VDC technologies and is focused on finding ways to promote and utilize emerging technologies to create efficiencies for Autodesk customers. John's vast knowledge in Assemble, Autodesk Takeoff, Autodesk BIM Collaborate and Autodesk Tandem makes him the perfect partner for companies embarking on their 3D journey. Due to his commitment to customer satisfaction, John has started Customer Success Departments from scratch at multiple firms over the years. John has a BS in Physics from University of San Diego and currently resides in Boston, MA

Panelist: Amr Raafat, Vice President of VDC & Technology - Windover Construction



Construction leader and expert in the industry's leading-edge technologies with more than 20 years of experience combining architectural, construction, and engineering expertise. Amr received the global 2019 Innovator of the Year award at the Autodesk AEC Excellence Awards. Amr leads Windover's Virtual Design and Construction team and the IDEA™ Innovation platform providing 4D animations, BIM coordination, laser scanning, drone mapping, virtual and mixed reality, digital prefabrication, robotics, automation, and 3D printing to enhance planning, change management, scheduling, site logistics, and safety throughout all construction phases. Working collaboratively with clients and project teams. Amr received his Master's Degrees in Architecture from the Boston Architectural College.

Panelist: Kevin Lucht, Sr Digital Solutions Manager - Arcadis



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 in 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, HNTB, 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. Kevin's significant projects and experience have been on large design-build and program management works domestically and internationally. With CH2M Hill he was lead airfield engineer on the upgrades to the Manas Airport in Bishkek, Kyrgyzstan and served as the Design System Technology Lead on the MASDAR City program in Abu Dhabi, UAE. While at Bentley he was seconded to Arup as an engineer and technology consultant for the M6 Birmingham Northern Relief toll road and for 2 years Kevin worked exclusively with Bechtel on the Dulles Metro DB light rail project. With HNTB, he was deputy PM for the P3 Eagle light rail DB in Denver, supported the I-405 (Carmageddon) DB and the CA HSR corridor study. While with Bechtel he provided engineering and BIM support on LNG plants in Texas and Mozambique, the WAAD Al Shamaal city DB in Saudi Arabia, and the CrossRail project in the UK. Currently with Arcadis he has global responsibility for Digital applications and CDE systems, as well as provides digital application support to the CM group in the US.

Panelist: Prashant Sharma, Sr Estimator - DPR Construction



Prashant has over 12 years of experience working on Preconstruction for projects in various markets (Education, Commercial, Advanced Tech, Life science, Entertainment and Retail). The bulk of his experience has been in the San Francisco Bay area, involving multi-year preconstruction efforts on primarily negotiated work. He has a deep understanding of estimating workflows involving target value design, design-build work, phased procurement, prefabrication, and 3D-based take-off / estimating. Prashant has a keen interest in new preconstruction technologies and

processes. He is passionate about making estimates more efficient, accurate, and informed using building information models Prashant has a Civil Engineering Bachelor's degree from Delhi University and Master's Degree in Construction Engineering & Management from Stanford University (Civil Engineering).

Panelist: Jourdan Trice, Solutions and Technology Integration Manager - DPR Construction



Jourdan is a solutions and technology integration manager at DPR Construction in the corporate service preconstruction group. His career in healthcare construction began in 2002 and he has worked as a preconstruction professional in commercial markets across the country. Jourdan has been developing model based estimating workflows since 2015 and loves leveraging Assemble for model conditioning and quantification. He lives and works in Boston, MA and loves to spend time with his 7year old son.

Background

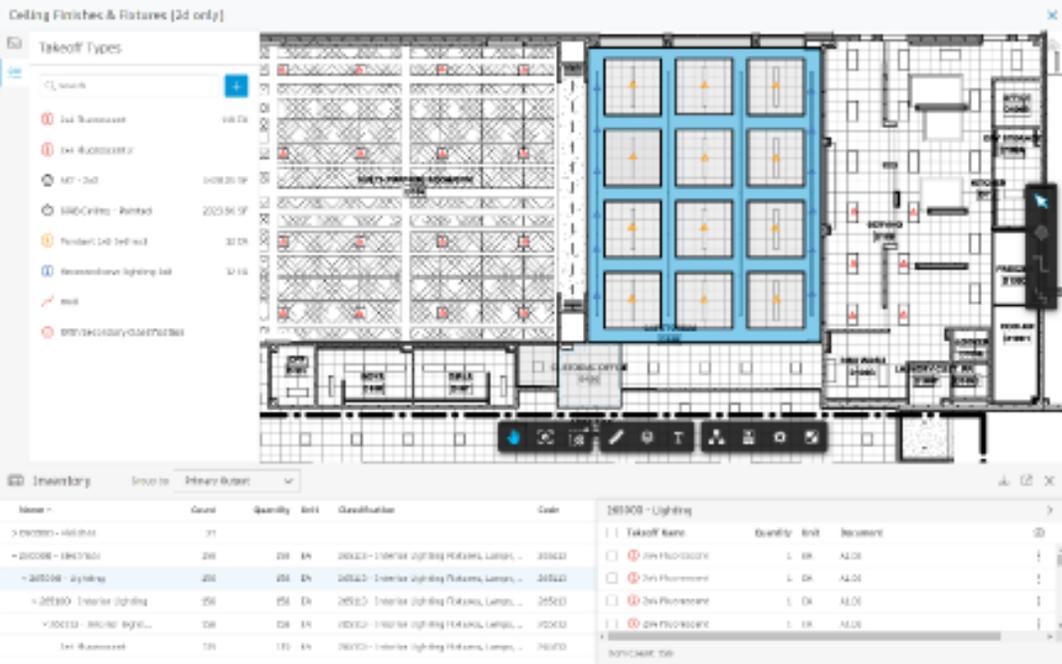
Estimating has been around a long time, and in the past decade or so we have seen a shift in the industry that has allowed for technology to thrive and give new life to an age old art. Estimating is one of the key aspects of the construction process, and by far the highest stakes. Accuracy & speed are key elements of a good estimator and cloud based tools take these things to the next level, especially when integrated with BIM. We want to share how some of the industry's largest players embrace and leverage technology to better collaborate and drive efficiency throughout their workflows.

Our panelists from DPR Construction, Windover Construction, and Arcadis will share their experiences with the new age of estimating and reveal how the benefits help drive their project efficiency. We'll discuss common industry challenges, expanding on these new ways of working, and highlighting all the technologies that make it happen. Every company is likely going to be doing things a little bit differently, but at the end of the day the goal is the same, win more work and grow your business. We want to shine a light on how technology and your goals go hand in hand.

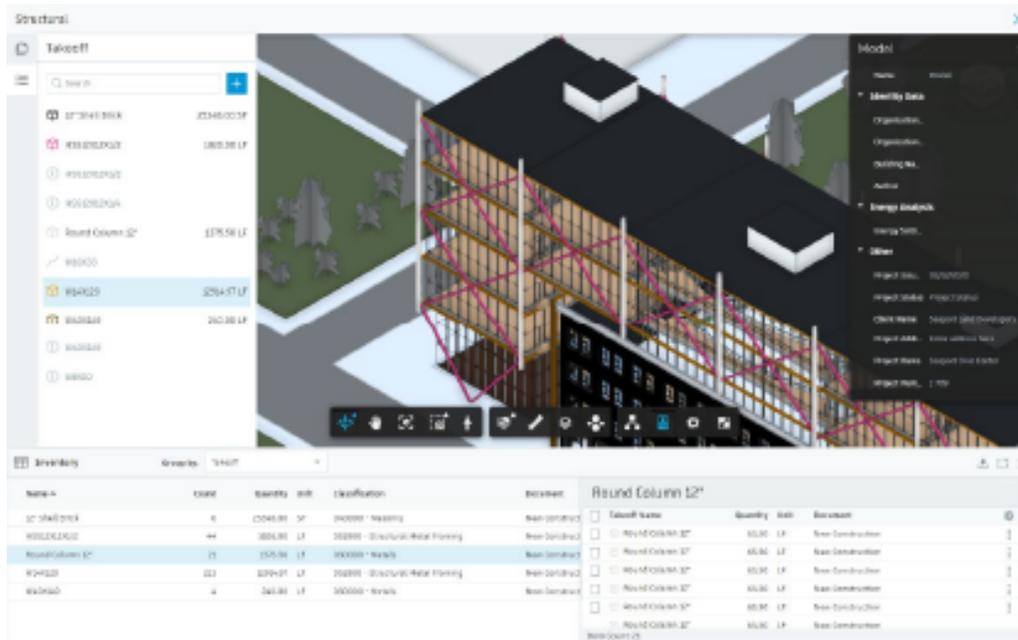
What is Autodesk Takeoff?

Autodesk Takeoff is a cloud-based quantification solution that empowers estimators to generate 2D and 3D takeoffs from a single solution to generate accurate takeoffs, faster.

Helping to ensure estimators have access to the right information at the right time is crucial to generating a competitive bid. Autodesk Takeoff harnesses the power of cloud-based document management powered by Autodesk Docs to help increase transparency, enable collaboration, improve quality and reduce costly mistakes.



Saving time and generating accurate quantities has never been easier than with Autodesk Takeoff. Bring the entire estimating team into the cloud-based 2D/3D takeoff solution to increase collaboration and streamline workflows. Break down data silos, allowing multiple estimators to perform takeoffs and collaborate on the same project.



Improve efficiency, accuracy and productivity of your estimating teams by leveraging model-based takeoff. Estimators benefit greatly from being able to visualize design intent and understand project scope in 3D in order to generate a more accurate takeoff. Spend more time on high-value work rather than tedious manual counting. Get instant access to quantities from the BIM model to achieve tremendous time savings, reducing the risk of miscalculation and omissions. With a unified takeoff workflow in Autodesk Takeoff, the output becomes a comprehensive inventory that provides an audit trail, so teams can quickly understand where the summary quantities come from. Aggregated 2D and 3D quantities can be rolled up by classification and type to allow for easy export to Excel.

Click [here](#) to learn more and try it for yourself.

Additional Resources:

- [Arcadis](#)
- [Windover Construction](#)
- [DPR Construction](#)
- [Autodesk Takeoff](#)