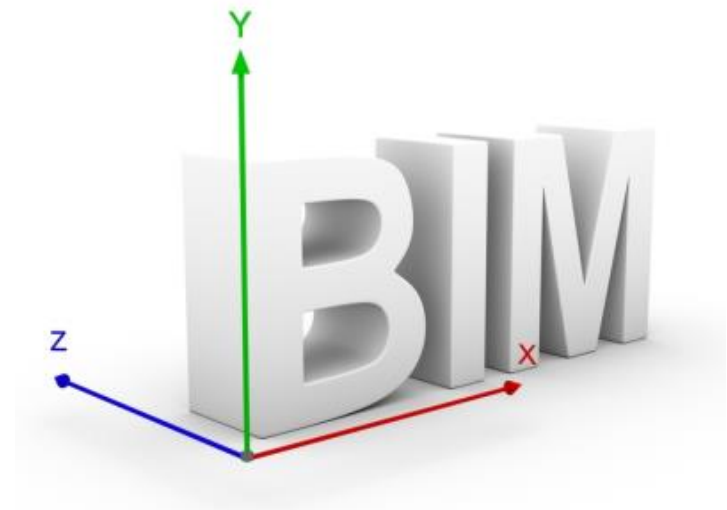


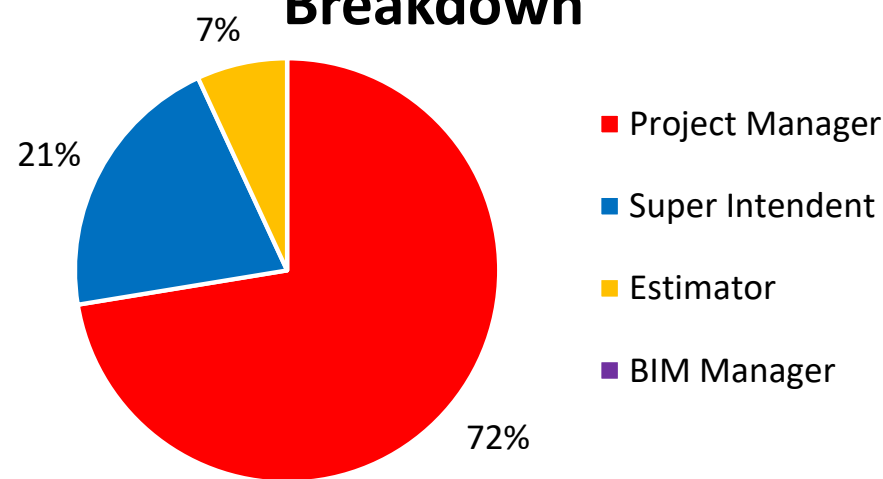


Implementing BIM Management and Process Optimization Strategies in Construction Management

As the construction industry rapidly continues to adopt technology and BIM practices, we need to ensure that Construction Management curriculum prepares students for what is expected after graduation. We currently have two Building Information Modeling Courses in the curriculum that focus mainly on learning software, and while this will be essential for students graduating from the Construction Management program, there remains room to improve the courses as the industry adapts. Adding curriculum geared more toward managing the BIM process and learning process optimization skills will not only benefit a higher percentage of students, but will also keep the Construction Management program's courses up to date.



Student Career Path Breakdown



Key Words: BIM, process optimization, curriculum, management

Industry Perspective

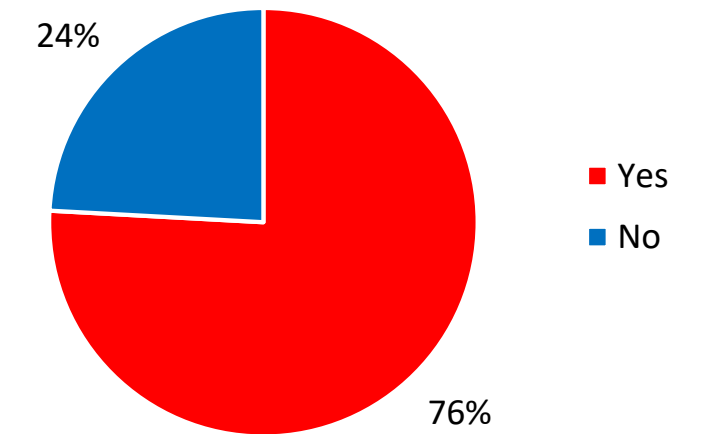
Transformation of the BIM Process

- 3D Coordination now standard
- BIM process now deals with information
- Adoption of 4D, 5D, and 6D processes

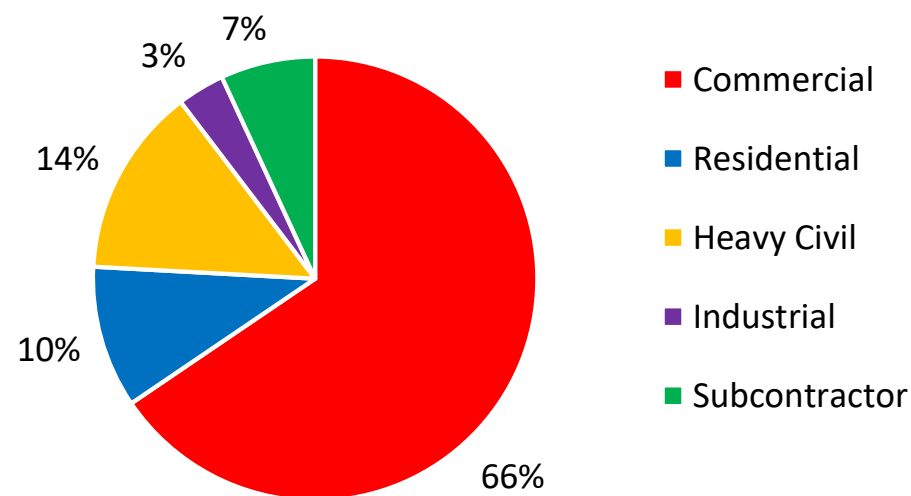
Issues Facing the BIM Process – What Should Be Taught

- Communication between all parties involved in the BIM process
- Getting subcontractors to effectively follow the process

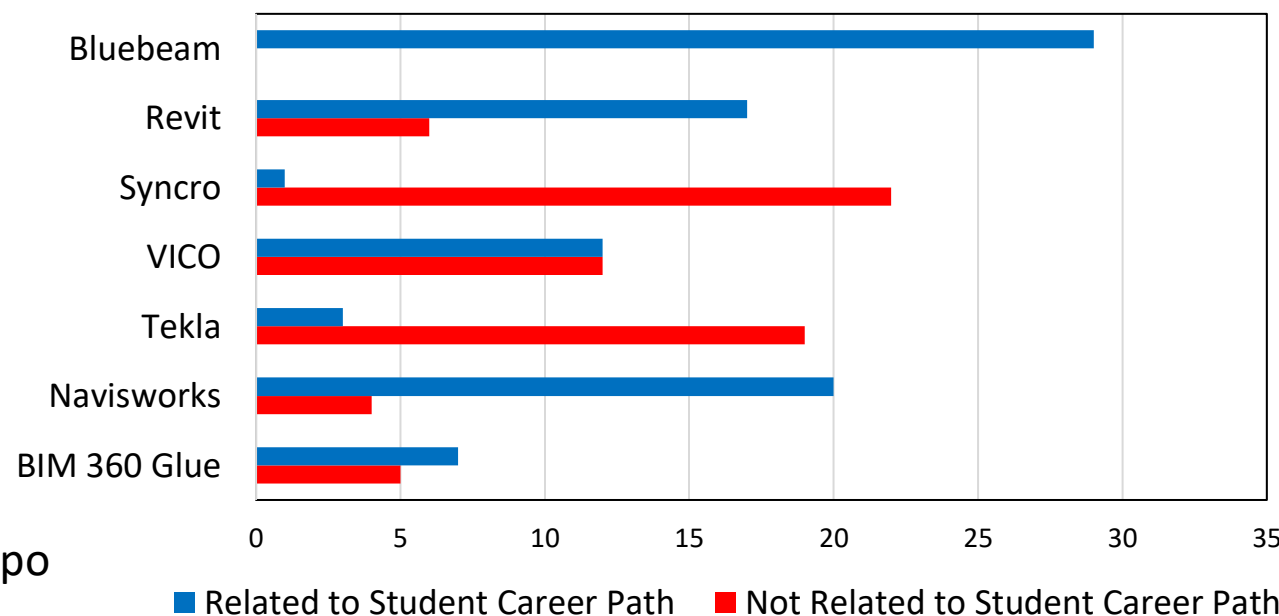
Student Interest in Process Optimization



Student Industry Sector Breakdown



Current Curriculum Software Effectiveness



Proposed Modules

Emphasis on Team Learning

Each team member will play the part of either the general contractor, subcontractor, or owner in each module.

Model Based Takeoffs

Using Revit and Vico Office, students will work through the 5D process of using a model to perform takeoffs.

6D Data Mining

Using Revit, Vico Office, Revit Express Tools and Microsoft Excel, students will explore through several levels of data in a model. Using this process, Excel spreadsheets will be created containing the required information from the owner.

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