



IT22316-R

Do You Want to Change the Industry Status Quo?

Bill Allen
EvolveLAB

Learning Objectives

- Understand the processes that are broken in the design, build, and operation world
- Learn what needs to change in our industry to make us more efficient
- Learn how to work with stakeholders not against them
- Learn how to change the status quo at your office, user groups, and organizations

Description

The way we design, build, and operate buildings is broken. We are looking to change that. When we went from CAD to Building Information Modeling (BIM), our processes did not change. Many in our industry are slaves to old methods and force BIM tools to operate like they are drafting tools. Is this because our deliverable is still paper? Is it because of our contracts? Is it because of old habits? We are looking for a group of thought-provoking individuals to have a real discussion about what is broken in our process, and how we can fix it. We are looking for ideas that we can take to the bank (and back to the office). Please join us in an innovative discussion.

Your AU Expert

Bill Allen is the co-founder and Chief Technology Officer at EvolveLAB, a progressive computational design and building information modeling company located in Boulder, Colorado. EvolveLAB supports architects, engineers and contractors by innovating the process of designing, constructing, and operating better buildings through technology and building information management. Bill has over a decade of experience managing technology for buildings in the AEC industry for cutting edge firms. He also has experience lecturing on staff as a College Instructor for the University of Nebraska Omaha and regularly speaks at such conferences as Autodesk University and the Central States BIM Workshop. Bill served on the BIM Board of Omaha, Central States Revit Workshop Board, and is currently the co-organizer of the Rocky Mountain Building Information Society.

This is a round-table format; therefore, content is created during the discussion in lieu of a lecture when content is created before. Below is a general outline of questions that will be asked during the round table. Your input is extremely valuable and contributes to the content of the class. Once the round table is complete, I will compile comments and share your comments with the group.

What processes that are broken in the design, build, and operation world

1. Is it as simple as more BIM Execution Plans

If people don't tell us what to do, it compounds the issue

Starting with a list of questions. What does Architecture do that irritates MEP, and vice versa. What information do we need from each other to make our documentation successful. 2D Collaboration, 3D Collaboration.

A list of questions that that is asked during a BIM Kickoff Meeting.

Exhaustive list of questions for new clients, shorter for existing clients

The idea of Revit is "killing Us" for Electrical. There is a presupposition about Revit will never let you make a mistake.

2. What silos are holding us back as an industry?

Clients are expecting earned value for same fee. More work for less fee

Would like to know the difference between design coordination and construction coordination models. Delivering way more than what the design intent model is.

Removing time off of Construction because design models are created. This is an issue as many times the contractor has to remodel it anyway. Owners have been sold on we are going to deliver to you a BIM Model with data in it. The Navisworks/Revit model does nothing for the owner many times.

LOD being included in BIM Execution Plan

LOD is not a solution because many people don't know what it is.

Most people really want LOD 350, not 400.

3. What processes are broken in the design world?

Wanting do leverage the 3D information. Not a tool that we are aware of that will convert the model to something other than a PDF format. Everything is there in the model, but we are unable to get useful information. Still need to create some kind of information to pass onto the contractor.

Who starts with the communication of what to deliver? GC, Owner, Etc.?

Communication break down is a real issue.

Solution of swapping out 3D models for 3D for fabrication

Things are going to change. We have to accept that. From there we can decide what processes need to change.

Receiving too much means and methods. Need design intent

Model is just a simulation of something that is not real.

4. What processes do you feel are broken in the construction world?

5. What processes do you feel are broken in the Operations world?

Things that need to change in our industry to make us more efficient

What needs to change in our industry to make us more efficient?

What needs to change in our industry to make us more efficient?

Communication

Expectations to make things very clear

Mentoring needs to change. Mentorship needs to go both ways. Getting older generation to allow conversation to happen.

Software can be a barrier to the trades.

Common data environment

What is our deliverable? Why does it have to be in Revit?

Deliverable does not have to be a 3D model

Operations need to tell the team what format they need to receive the information in. Does county know what new technologies exist?

Better communication between general contractor and designer

Learn how to change the status quo at your office, user groups, and organizations

6. Change happens with you. How can you change the status quo at your office specifically, your user groups/organizations specifically?

Share among ourselves. We are all in the same boat.

Layout a way we can better communicate

Restructuring- Sending guys out into the field