WHY OR GENENT?
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WANAGENEMENT?

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## THE PROMISE OF BIM

- To build a structure *virtually* prior to physically constructing it
  - Gives the ability to design, analyze, sequence, and explore a project digitally
  - Far less expensive
  - Mitigate construction risk
- Successful BIM use requires three key factors
  - Processes, Technologies, and Behaviors

## **KEY FACTORS**

- Processes
  - Take new technologies and make them work in old processes
  - Creates waste by not taking into account the implications of the new technology
- Technologies
  - Analyzing and selecting technology
  - Three Approches
    - Pile On
      - Looking at tools as an addition to the current system
    - Swap Out
      - Examining a new tool and looking to see which current tool or tools can be replaced
    - Process First
      - Company reviews current system and asks themselves "How do we want it to work?"
      - More time consuming and tedious than others
- Behaviors
  - Is the company resistant to change or has a culture of innovation
  - Most difficult to change

#### THE VALUE OF BIM IN CONSTRUCTION

- Can solve real-world problems such as scheduling, estimating, and logistics.
  - Scheduling
    - By linking to scheduling data, incorrect schedule logic can be detected
  - Estimating
    - BIM derived estimating directly links model components to unit cost to produce an estimate
  - Logistics
    - BIM combined with geographic information systems has changed the way we create site plans by adding a level of detail, particularly in more vertical construction.
- Save time through automated functions
- Eliminate the need to travel to a meeting
- Save money since better information is available early on to make effective decisions

## WHERE THE INDUSTRY IS HEADED

- Data input is becoming more efficient
- Big shift in collaboration methodologies and an increase in the frequency of information sharing. Such as: Dropbox, Egnyte, Newforma and etc
- BIM is significant for every phase of construction
- Many industry organizations have moved beyond introducing BIM as a concept to more detailed analysis on planning, organizational structure, and process change dialogue

# **SUMMARY**

- BIM continues to change the way we deliver construction
- Our industry was in need of reinvention that included technology improvements and enhanced collaboration
- Construction firms around the world continue to realize the benefits of BIM