UNITED BIM

5 Game-Changing BIM Trends in 2023

How BIM is Benefiting owners in AEC Industry

Benefits of BIM Collaboration	Architects	Engineers	General Contractors	Trade Contractors
Better client understanding of proposed design	92%	57%	92%	75%
Improved client team design relationship	92%	43%	85%	50%
Improved overall design solution	92%	43%	85%	50%
Faster decision making	75%%	43%	85%	50%
Fewer design changes during the process	58%	43%	54%	75%

Latest BIM Trends in AEC Industry- 2023

Clearly, BIM has simplified the process of building architectural design and inter-team collaboration associated with a building construction project. The BIM industry is evolving every day with new trends emerging every moment.

01

3D Printing

02

AR & VR- Augmented/ Virtual Reality

03

Use of Cloud Software

04

Internet of Things (IoT)

05

Drone Usage

3D Printing

The advancement in 3D printing technology has made it easier for professionals to create accurate elements associated with building design in a short while with minimum loss of material. When used with BIM processes, 3D printing can help in the swift development of prototypes for sharing with several stakeholders related to a construction project.

3D printing is a fundamental extension of the 3D modeling process in BIM. It covers the production of the 3D model from the digital file by laying down thin layers of material in consequent succession. Using the technology, teams can collaborate better on digital projects by seeing an element in the physical form.

This helps them understand the dynamics, functioning, and efficiency by analyzing a structure through its look and feel, which was not possible earlier in BIM. As 3D printing technology keeps evolving, more and more AEC professionals will begin looking at the inherent benefits of using the same for better results.

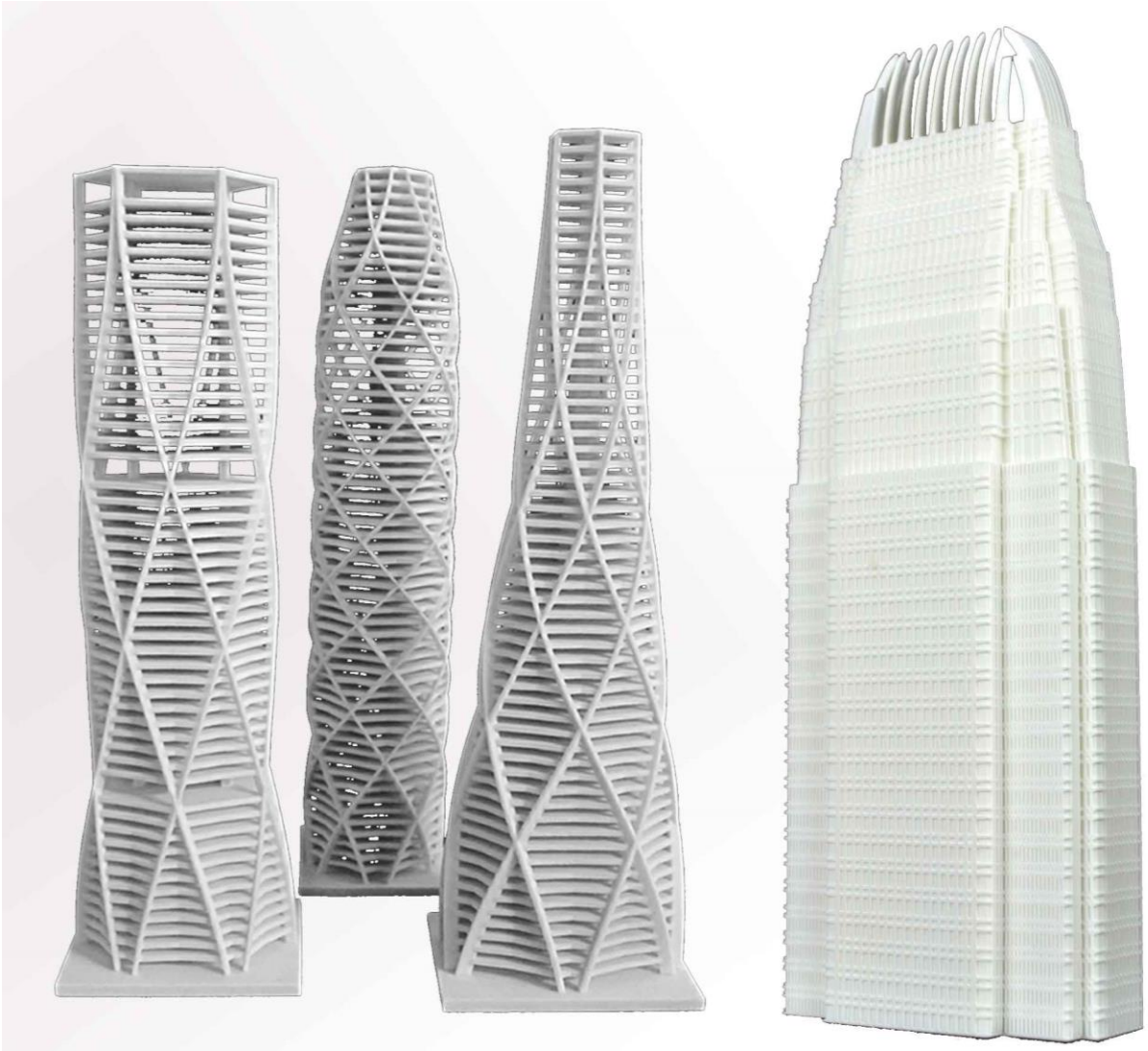


Image source: HK3DPrint

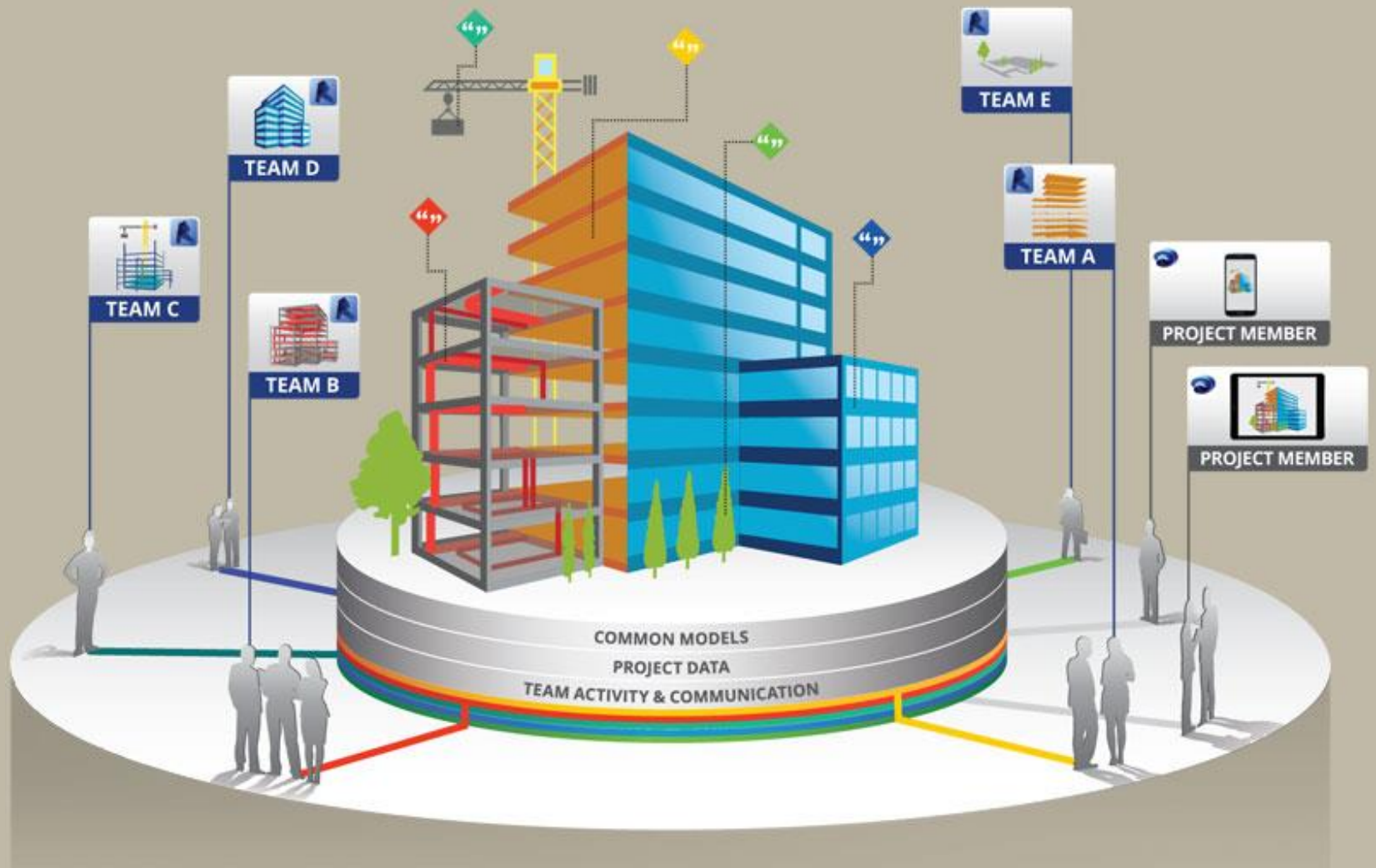
2. AR & VR
AUGMENTED & VIRTUAL REALITY

Image credit: Arch Virtual

Augmented & virtual reality is making inroads to the BIM process and AEC industry, at large. Perfect for presentation and evaluation purposes, these technologies are augmenting the entire modeling process. With AR/VR technology examining large-scale 3D models becomes faster, better and easier.

AR/VR technology will be seen enhancing the BIM modeling process in the future as stakeholders will have a comprehensive and clear image of everything in front of their eyes at every step and every level of design and development.

3. USE OF CLOUD SOFTWARE



Cloud mobile applications are like a boon for AEC and BIM segment as all the stakeholders will get hold of real-time data related to the design phase. At the same time, they can use mobile apps to collaborate with different teams working on the same project.

Using a cloud framework, the BIM data can be accessed by anyone from any location in real time simplifying BIM model sharing. Reporting also can happen more swiftly, paving way for a more constructive and positive collaboration leading to reduced wastage of time, efforts and money in project communication and collaboration.

4. INTERNET OF THINGS (IOT)

IoT has the potential to transform the entire BIM modeling and project installation process. IoT simplifies the process of data release to prefab workshop, contractors and modelers. IoT devices can be used to capture real-time data and this data can be used to augment the design process. Designing can happen using a ready-to-order process based on the data captured via IoT devices which can speed up the entire design process from beginning till the end.

Image credit: Whitesales.co.uk

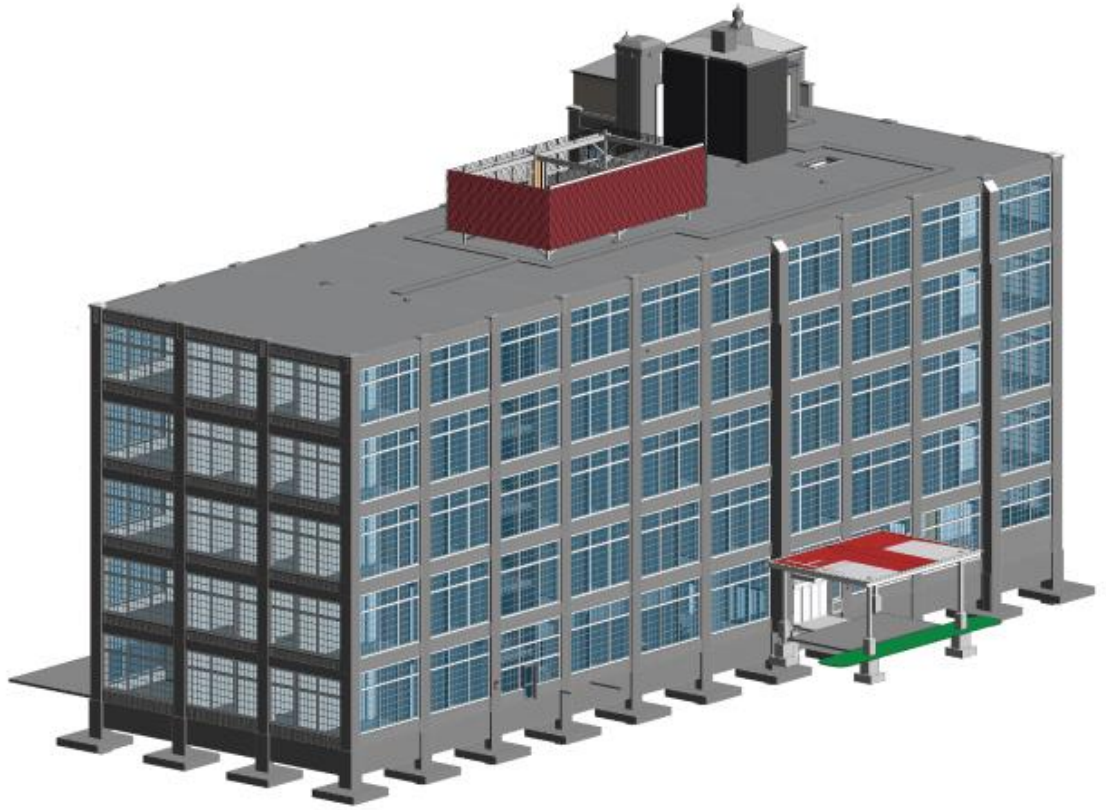
5. DRONE USAGE

Before you begin with actual designing and drafting, you need to configure the right Revit Assembly Codes. Assembly codes define how the construction information will be arranged based on the fundamental functional elements. This is essential to ensure that the codes match your content plan for all the components.

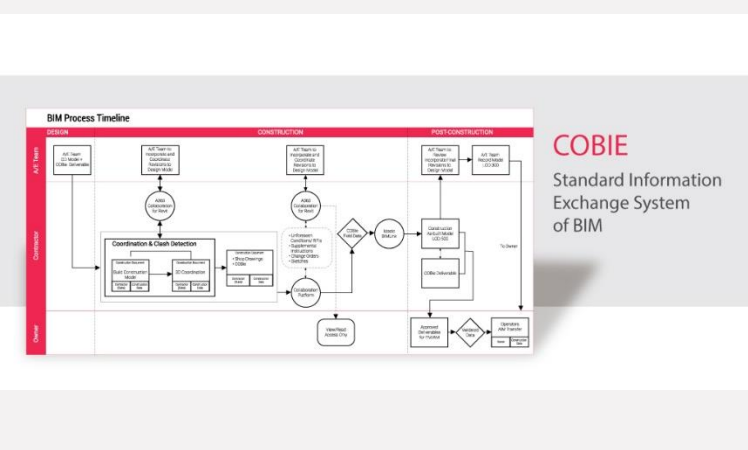
HOW BIM WILL IMPACT THE FUTURE OF THE AEC INDUSTRY?

Paper-based processes and software interchangeability have resulted in losses over billions of dollars over the years. With BIM's central data model approach, everything is streamlined across the project and different software packages. Manual re-entry option is eliminated ensuring every documentation and communication is always accurate and visible to all the parties.

78% of manufacturers worldwide believe that BIM is the future of project management and has influenced AEC industry phenomenally. BIM has been instrumental in helping firms achieve desired efficiencies and reduce the cost of project management over time.

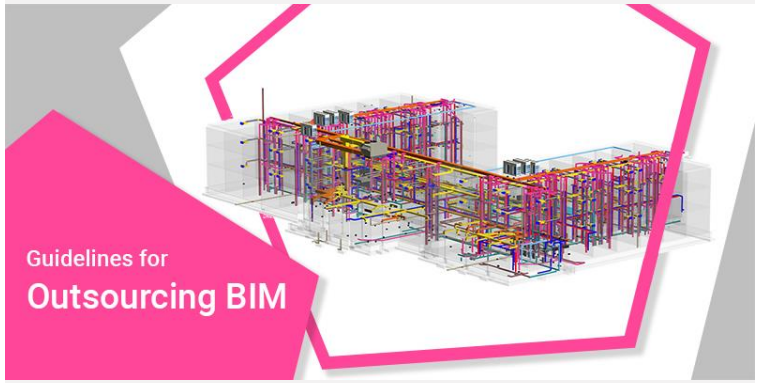


FEATURED BLOGS



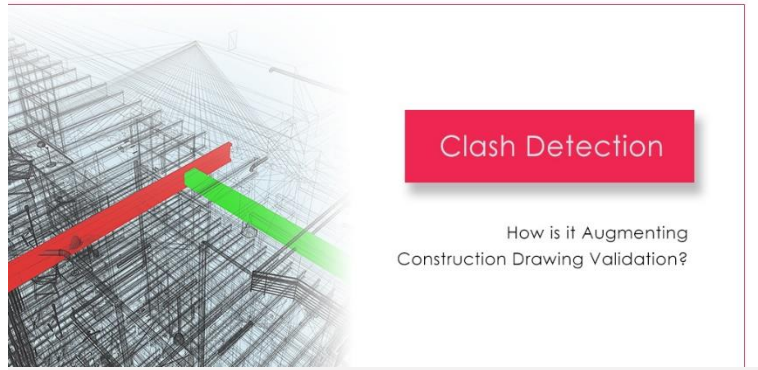
What is COBie?

How it is streamlining data collaboration between AEC professionals



Guidelines for Outsourcing BIM

Key Takeaways for AEC Professionals



What is Clash Detection in BIM?

Process, Benefits and Future Scope in Modern Day AEC industry

REVIEW CHECKLIST
FOR PERFECT DESIGN DRAWINGS

Review your design drawings to perfection with this easy to use drawing checklist, made for Architects and Engineers.

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