

BIM Adoption in **THE CONSTRUCTION INDUSTRY** Around The World

BIM, an innovative approach to design and construction for pioneering early adopters just a few years ago, is now taking its place firmly in the mainstream of the world's construction industry. Also, it is maturing, much like other major technology-oriented processes. New technologies gain traction when their benefits are meaningful and sustainable for users.

Pre-Construction, Construction, and Post-Construction

Advantages of BIM Adoption

PRE-CONSTRUCTION

- Improved Concept & Feasibility
- Ability to understand the environment and resource-related issues through effective site analysis
- Effective design reviews can lead to sustainable designs
- Faster and accurate cost estimations
- Resolution of design clashes at an earlier stage

CONSTRUCTION

- Evaluation of the construction of complex building systems to improve-planning of resources and sequencing alternatives
- Effective management of the storage and procurement of project resources. Efficient fabrication of various building components off-site using a design model as the basis
- Reduce site congestion and improve health and safety

POST CONSTRUCTION

- A BIM record model can help in decision-making about operations, maintenance, repair, and replacement of a facility
- Makes asset management faster, more accurate, and with more information on issues through practical site analysis
- Ability to schedule maintenance and easy access to information during maintenance

Barriers of BIM Adoption

- Shortage of resources
- Lack of BIM Awareness
- Limited Relevance
- Collaboration issues
- Resistance to changing habits