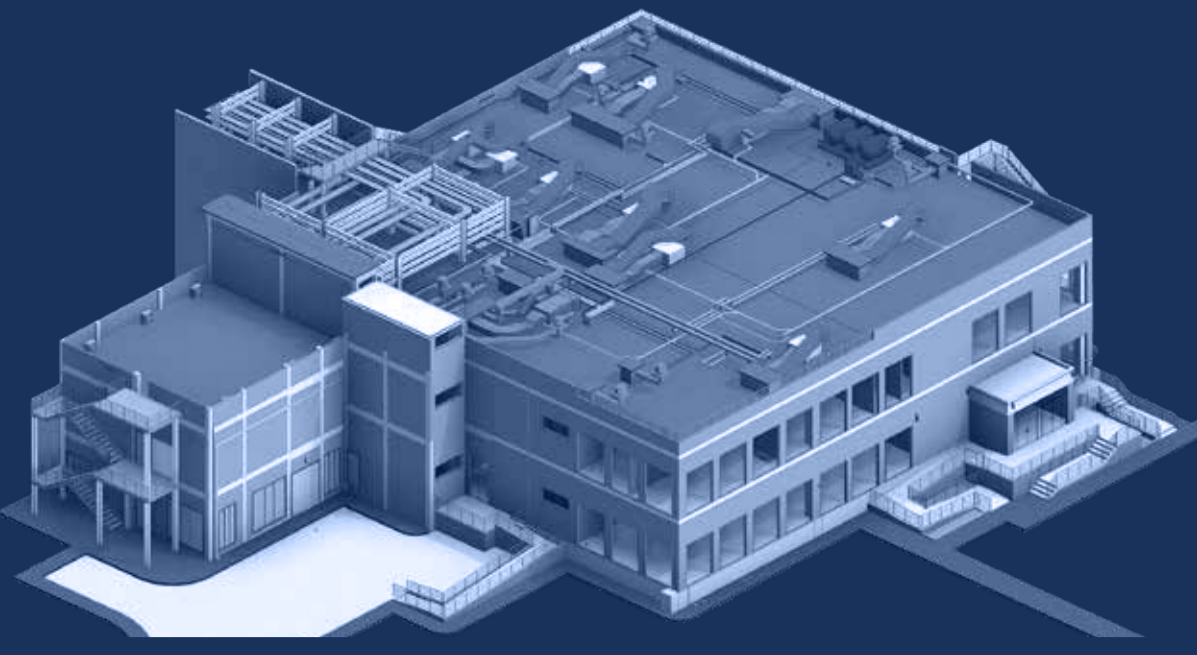


WHY HOSPITALS NEED TO INVEST IN BIM TODAY



CHALLENGES IN HOSPITAL CONSTRUCTION

Low project visualization + poor interdisciplinary coordination lead to:



Iterations and reworks



Project delays



Material and resource wastage



Budget overruns



Meticulous planning for specialized needs

- Critical care rooms (Trauma centers, Intensive care units etc.)
- Advanced medical equipment (Robotic surgery, Gene therapy labs, Advanced prosthetics, Microsurgery)

Renovations need to ensure

- Undisturbed hospital operations
- Patient safety
- Minimum inconvenience



To break even, average hospital costs will have to be reduced by **24%** by 2022.

BENEFITS OF ADOPTING BIM FOR HEALTHCARE FACILITIES

Pre-construction Visualization

- Reduces rework and saves costs
- Better space planning
- “What-if-scenarios” based on 3D walkthroughs, virtual prototypes & spatial diagrams



More than **60%** of hospitals adopting BIM have finished projects under budget and ahead of schedule.

Shared model

- Structured information flow across disciplines
- Construction conflict situations resolved
- Interdisciplinary coordination
- Accountability and transparency



Scheduling and sequencing

- Visibility into onsite progress
- Detect deviations from defined plan
- Flexible resource allocation
- Timely project completion

Cost estimation with accurate quantity takeoffs

- Reduced estimation errors
- Real-time material cost adjustments
- Improved budgeting and forecasting



BIM SUCCESS STORIES IN HEALTHCARE CONSTRUCTION

Global impact of BIM for Healthcare Construction



Observed a **21%** rise in profit margins, timesavings of 99 days and cost savings of **\$50, 637** through BIM adoption.

- Aberdeen Group



Management of smooth operations for 22 months with complete efficiency and safety by adopting BIM technology.

- University of Virginia Health System Hospital

30-35% saved on project costs for a Hospital Building project

Egypt

The Solution

- A clash-free 3D model in Revit using LOD 300 & compliance with AIA standards

Business Impact

- 30 to 35% savings on project costs
- Enhanced analysis of energy efficiency



Higher project ROI on a Hospital project

Saudi Arabia

The Solution

- A clash-free 3D BIM model in LOD 500 based on AIA standards using Revit & Navisworks

Business Impact

- Streamlined construction activities
- Reduced rework
- Significant time savings
- Better project ROI

