

How BIM Addresses Design Challenges for Architects



BIM offers architects design visualization, architectural design performance, building efficiency, and progressive workflows.

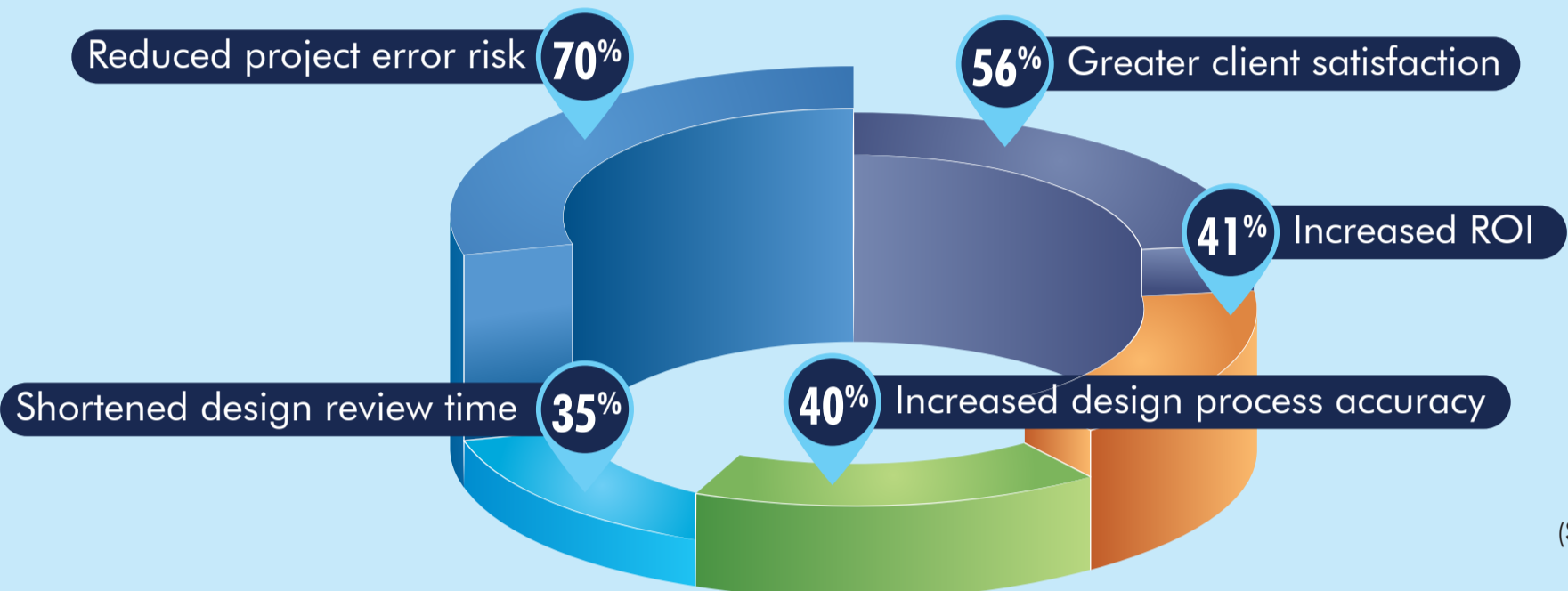
60% of Architects using BIM report that they use BIM on over half of their projects, with a total of 89% forecast by 2024-Dodge and Data Analytics

Challenges Faced by Architects with CAD-based Drawings

- Lack of informed decision-making on architectural technicalities like design orientation and aspect format
- Software interoperability with CAD tools across various trades
- Manual calculations and changes are not updated in real-time
- 2D CAD views cannot visualize complex spatial geometry
- Lack of conflict detection & resolution leads to rework and project delays
- Lack of design coordination leads to low-quality deliverables and results

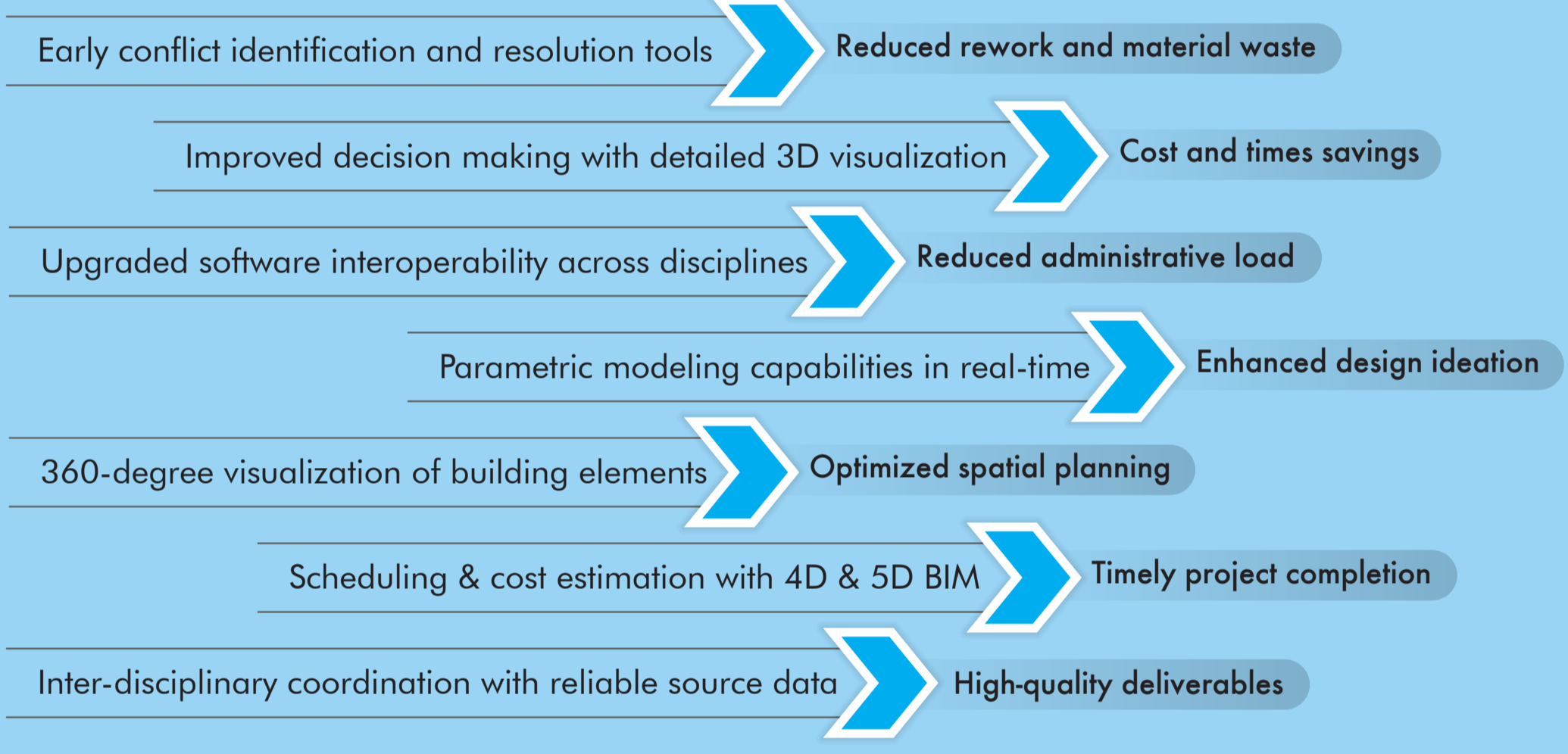


Business Impact of BIM for Architects

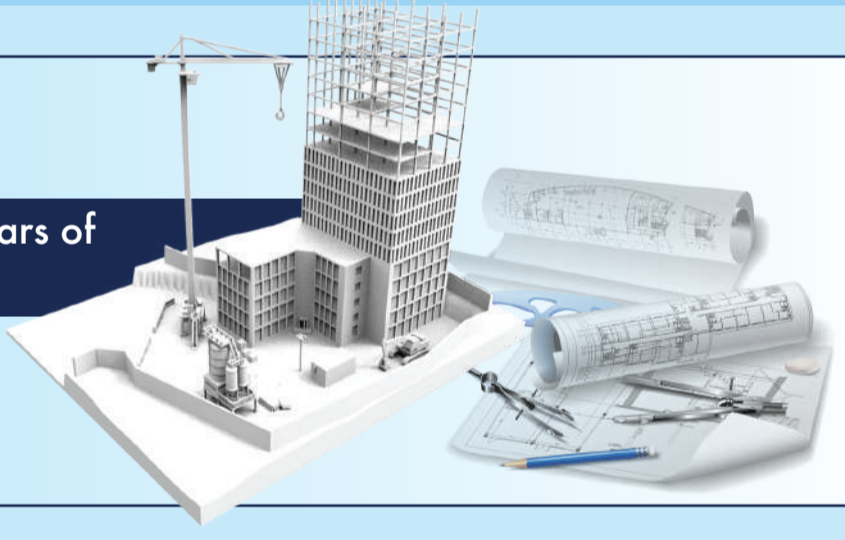


(Source-Autodesk)

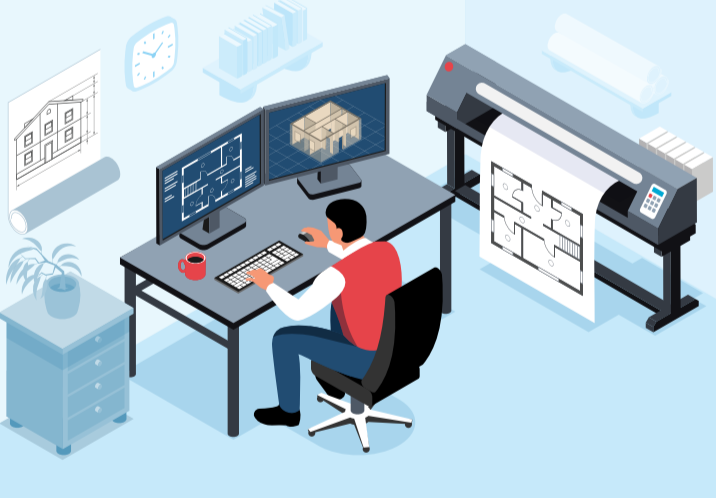
BIM Helps Architects to Design a Better Tomorrow



34% of large architecture firms have more than 5 years of experience using BIM



What Architects Should Consider When Selecting Collaboration Tools



- Complexity and size of the project
- Access control for various teams
- Integration of BIM model and tool navigation
- File management in the cloud
- Connectivity with third-party apps



Architectural BIM Success Stories

4D Architectural BIM model saves cost and time with improved design intent communication


- Business need**
- ▶ Federated architectural BIM model reinforced with 4D scheduling capabilities using Revit and Navisworks for a mixed-use building in UK
- Solution & result**
- ▶ Hassle-free construction with time liner video
 - ▶ Improved design intent communication with client
 - ▶ Reduced rework and cost savings with sequential video



3D architectural visualization of rail yard and the mixed-use building enables quick client approvals

- Business need**
- ▶ 3D architectural Revit model with coordinated drawings for a mixed-use building including malls, offices and residences in UK
- Solution & result**
- ▶ Quick client approvals with 3D rendered architectural models
 - ▶ Project completion with stipulated timeframe
 - ▶ Improved decision making with 360-degree visualization





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