BIM Transformation Services Overview

Autodesk Consulting
Contents

Introduction
- Research findings
- Typical business concerns
- Typical implementation challenges
- How we can help

BIM Transformation
- Services capabilities
- Benefits of our approach
- Success stories

Image courtesy of JE Dunn
Owners’ Ratings of BIM Benefit Statements (Those With a High or Very High Level of Agreement)

<table>
<thead>
<tr>
<th>Statement</th>
<th>US Owners</th>
<th>UK Owners</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIM Visualization Enables a Better Understanding of the Proposed Design</td>
<td>66%</td>
<td>98%</td>
</tr>
<tr>
<td>There Are Fewer Problems During Construction Related to Design Errors, Coordination Issues or Construction Errors</td>
<td>53%</td>
<td>85%</td>
</tr>
<tr>
<td>BIM Analysis and Simulation Capabilities Produce a More Well-Reasoned Design</td>
<td>50%</td>
<td>92%</td>
</tr>
<tr>
<td>The Use of BIM Generates a Beneficial Impact on Project Schedule</td>
<td>49%</td>
<td>85%</td>
</tr>
<tr>
<td>The Use of BIM Generates a Beneficial Impact on Control of Construction Costs</td>
<td>44%</td>
<td>72%</td>
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</tbody>
</table>

Contractors Citing BIM Benefit as Among Top Three for Their Company

- Reduced Errors and Omissions: 41%
- Collaborating With Owners/Design Firms: 35%
- Enhancing Your Organization’s Image: 32%
- Reducing Rework: 31%
- Reduced Construction Cost: 23%
- Better Cost Control/Predictability: 21%
- Reducing Overall Project Duration: 19%
- Marketing New Business: 19%
BIM Transformation | Research

Level of engagement and success

- **Low Engagement**:
  - Very Positive: 64%
  - Moderately Positive: 33%
  - Negative or Break-Even: 20%

- **All BIM Users**:
  - Very Positive: 37%
  - Moderately Positive: 36%
  - Negative or Break-Even: 27%

- **Very High Engagement**:
  - Very Positive: 67%
  - Moderately Positive: 37%
  - Negative or Break-Even: 6%

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Typical business concerns

- How do we reduce our risks on the project?
- How do we meet client requirements to use BIM?
- How do we maintain both the project schedule and profit margins?
- How can we differentiate ourselves from our competitors?
- Where can we extend our services and revenue opportunities?
Typical implementation challenges

- Multiple expectations for outcomes
- Pressures of delivery schedule and profit margins
- Minimizing impact to current staff and resources
- Limited resources and funding
- Limited upper management buy-in and vision
- Difficult to demonstrate and quantify benefits of investment
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How we can help

Autodesk® BIM Transformation Services help companies more rapidly realize the business benefits of BIM to help achieve strategic goals and attain a competitive advantage.

- Provide a structured approach to align implementation goals with business objectives
- Address required business process changes
- Implement standards and workflows that align with your organization
# BIM Transformation

## Services capabilities

<table>
<thead>
<tr>
<th>Plan</th>
<th>Implement</th>
<th>Optimize</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise</td>
<td>Solution Strategy</td>
<td>BIM Management Office</td>
</tr>
<tr>
<td></td>
<td>Solution Planning</td>
<td>BIM Standards &amp; Compliance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ecosystem Integration</td>
</tr>
<tr>
<td>Project</td>
<td>Project &amp; Business</td>
<td>Project Pursuit</td>
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<tr>
<td></td>
<td>Alignment</td>
<td>Conceptual Design</td>
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<tr>
<td></td>
<td></td>
<td>Detailed Design</td>
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<tr>
<td></td>
<td></td>
<td>Construction Management</td>
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</table>
BIM Transformation | Strategy & Planning services

Plan

- Build a common BIM vision for the overall organization
- Clarify the business value
- Set and manage expectations for success
- Map target capabilities to business goals
- Develop a BIM Roadmap that successfully guides implementation
BIM Transformation | Implementation services

Implement

• Accelerate BIM implementation and integration across your organization
• Implement the most demanded and valued BIM processes with on-the-job mentoring on a live project
• Create flexible standards and processes that can grow and evolve as you advance in BIM maturity
• Streamline implementation by leveraging best practices
• Helps to enable project teams and organizations to become self sufficient
Establish a culture of continual improvement
Assess your BIM maturity to help identify:
  - Internal best practices
  - Recommendations for improvement
  - How to develop a competitive advantage
Conduct Project Health Checks to help correct issues before they become problems
Mentor and coach your team to assist with adoption of new processes
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Benefits of our approach

Plan more effectively for better results

Accelerate implementation while minimizing risk

Empower your team to leverage new processes and technology
Proactively mitigate construction risks—such as cost and schedule overruns or technology failures by the use of Building Information Technology (BIM)

Integrate systems and software from three technology providers to create a dashboard to serve as a single source of project data

Autodesk® Enterprise Business Agreement (EBA)

Autodesk® Multi-Flex

Autodesk® Consulting BIM Transformation Services

Autodesk® BIM 360

Autodesk Consulting helped to develop a system for enhanced collaboration across project teams and disparate technology providers

Stronger relationship with Autodesk Consulting

Expanding access to BIM technology

“Autodesk Consulting was a great resource for us in developing innovative BIM technology, especially around project planning and estimating early in the project.”

John Jacobs
Chief Information Officer
JE Dunn

JE Dunn Construction
BIM Transformation Services

Image courtesy of JE Dunn
**HDR Engineering**  
**BIM Transformation Services**

“Autodesk Consulting offered the breadth and the depth of expertise to evaluate and also to establish our road map for the future as we contemplate on how to take it up a notch for our clients.”

**Jim Wajda**  
Chief Technology Officer  
HDR Engineering

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Solution</th>
<th>Results</th>
</tr>
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<tbody>
<tr>
<td>HDR Engineering wanted:</td>
<td>Autodesk® Consulting Services included:</td>
<td>HDR was able to:</td>
</tr>
</tbody>
</table>
| - Evaluation of their BIM capabilities and an industry benchmark comparison | - BIM Maturity Assessment  
- Development of a BIM Roadmap  
- Project BIM Implementation Services (training, mentoring, configuration and process) | - Increase executive awareness and alignment around BIM goals, and develop a corporate roadmap  
- Reduce re-design time up to 20% when using model-based design coordination  
- Improve customer experience through enhanced understanding and visualization of the project |
Shayona Land Corporation
BIM Transformation Services

“Autodesk Consulting helped us define a BIM process that improved coordination with our architecture, engineering and construction service providers.”

Llewellyn Rozario
Vice President
Shayona Management Services

**Challenge**

Shayona was experiencing:

- Lack of consistent coordination among AEC disciplines, resulting in project delays.
- A higher than average number of change orders during the construction process causing unplanned costs.
- The need to improve quality and reduce overall project time.

**Solution**

Autodesk® Consulting BIM Transformation Services:

- Helped Shayona define its strategy and goals for a coordinated adoption of BIM.
- Delivered a BIM Project Execution Plan that aligned with Shayona’s objectives.
- Shared best practice guidelines and training for successful BIM adoption.

**Results**

Shayona is now able to:

- Leverage BIM to help increase efficiencies with a well-coordinated AEC team.
- Deliver higher quality projects at a lower cost.
- Greatly reduce cycle times which should help them to realize more profit.
BIM Transformation
Customer Success Videos

Construction
- Play JE Dunn video
- Play Gilbane video
- Play BAM video

Engineering
- Play HDR video
Representative Clients | BIM Transformation Services