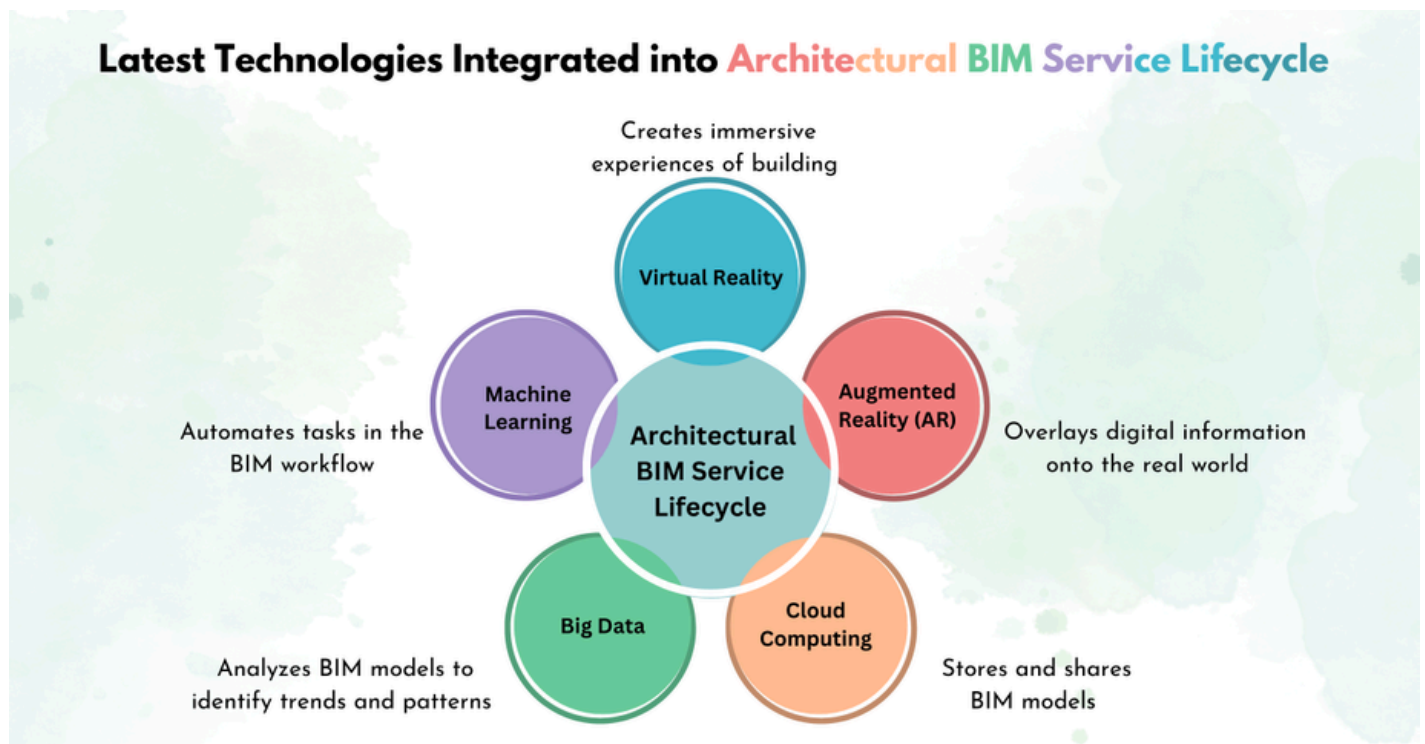




# How Architectural BIM is used throughout Construction Project Lifecycle?

**Architectural BIM Planning Saving Every Stage of Construction Project Lifecycle:**



Architectural BIM swoops in to save the day in every stage of a construction project's lifecycle. During the planning phase, this technological wonder showcases its ability to create detailed 3D models that bring designs to life, giving stakeholders a visual feast. With its impeccable accuracy, nothing escapes its eagle eye as it identifies potential clashes and inconsistencies before construction even begins. As the project moves into the construction phase, Architectural BIM effortlessly coordinates with structural and MEP BIM to ensure smooth collaboration and seamless integration. It happily eliminates any miscommunication among the various teams by providing a shared digital platform where everyone can play nicely together. But wait, there's more! Once construction is complete, this incredible tool continues to shine by offering invaluable data for facilities management, allowing building owners to efficiently maintain their shiny new structures for years to come. With its versatility and charm, Architectural BIM is truly the champion of construction project lifecycle!

**Ways through which Architectural BIM is used throughout the construction project lifecycle:**

- **Conceptual design:** BIM can be used to create 3D models of buildings in the early stages of design. This allows architects to visualize their designs and get feedback from clients and stakeholders.
- **Schematic design:** BIM can be used to create more detailed models of buildings in the schematic design stage. This allows architects to explore different design options and to get more accurate estimates of construction costs.
- **Detailed design:** BIM can be used to create final, detailed models of buildings in the detailed design stage. This allows architects to create construction documents that are accurate and up-to-date.
- **Construction:** BIM can be used to create 4D models of buildings that show the sequence of construction activities. This can help to improve coordination between different trades and to identify potential problems early on.
- **Operation and maintenance:** BIM can be used to create 5D models of buildings that show the cost of different components. This can help to improve the operation and maintenance of buildings by identifying areas where costs can be saved.

#### **Latest Architectural BIM software used throughout Construction Project Lifecycle:**

- **Revit:** Revit is a popular BIM software that is used for architectural design, engineering, and construction. It allows users to create 3D models of buildings and structures, and to collaborate with other team members on the same model.
- **ArchiCAD:** ArchiCAD is a popular BIM software that is used for architectural design. It is known for its intuitive interface and its ability to create photorealistic renderings of buildings.
- **BIM 360 Design:** BIM 360 Design is cloud-based BIM software that is used for collaboration and coordination. It allows users to share BIM models with other team members, and to track changes to the models in real time.
- **Allplan:** Allplan is a BIM software that is used for architectural, structural, and MEP design. It is known for its powerful capabilities for 3D modeling and analysis.
- **Vectorworks:** Vectorworks is known for its ability to create 2D and 3D models, and for its support for a wide range of file formats.

Want to construct in the most befitting way? Then Plan building design at preconstruction with [architectural BIM!](#)

## **Use BIM to Improve Built Environment:**

BIM can also be used to improve communication and collaboration amongst different stakeholders throughout the construction project lifecycle. This helps to reduce errors and ensure that the project is completed on time and within budget. As BIM technology continues to develop, it is likely that we will see even more ways to use BIM to improve the built environment.