



EVEREST BIM

ENGINEERING SERVICES

INSPIRE | EMPOWER | DEVELOPE | TRANSFORM

About Us

Everest BIM Engineering Services stands as a premier partner in advanced Building Information Modelling (BIM) solutions. Powered by a dynamic team of 50+ seasoned professionals across Architecture, Structural Engineering, Landscape, Infrastructure and Interior Design, we bring deep technical expertise and creative precision to every project.

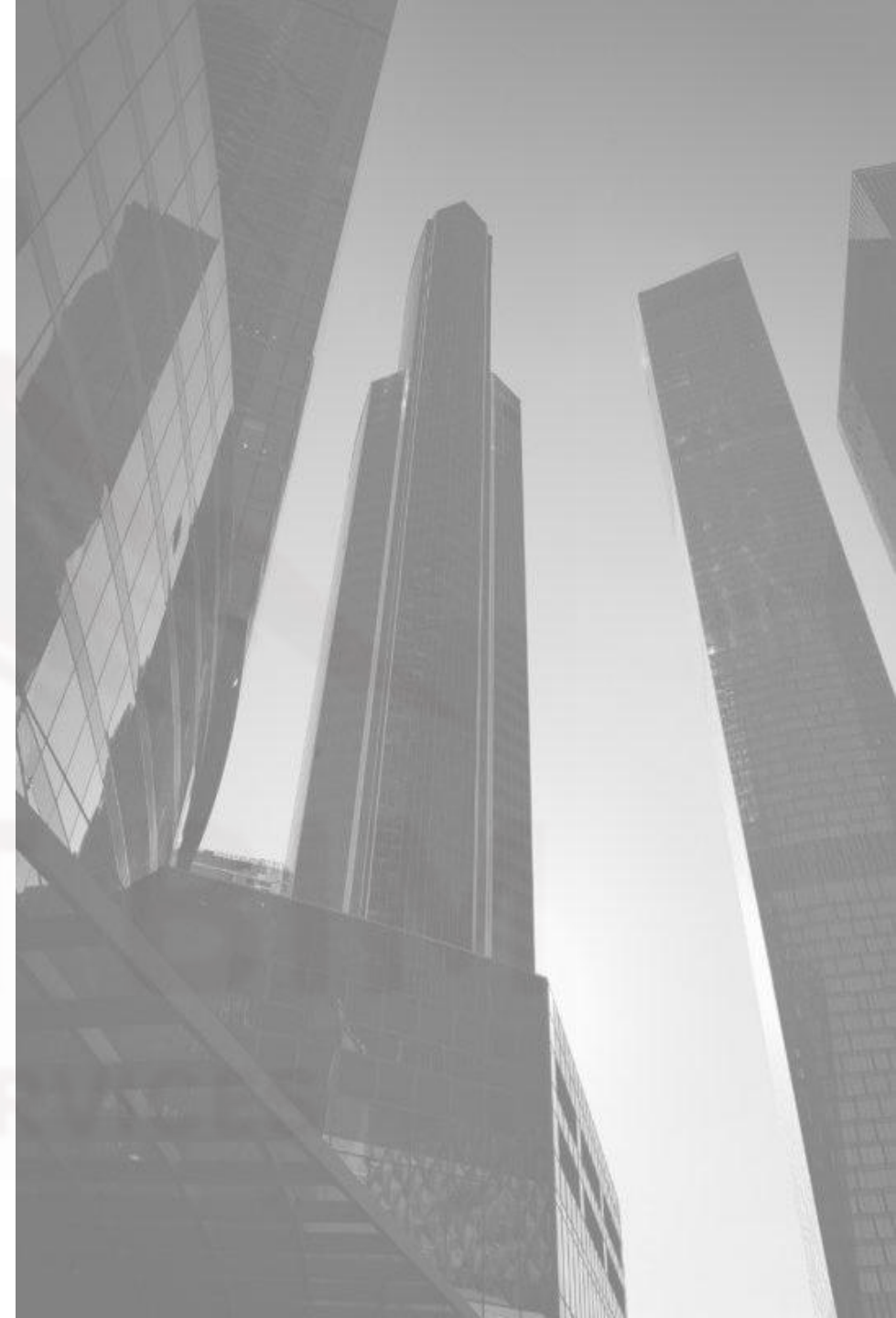
Our multidisciplinary capabilities enable us to deliver highly accurate, efficient, and innovation-driven BIM outputs that enhance project coordination, optimise workflows, and significantly improve cost efficiency. With a commitment to excellence and a passion for detail, we support clients in transforming complex design visions into seamless, constructible realities.



Company History

Founded in 2015, Everest BIM Engineering Services has grown into a multidisciplinary team of highly skilled professionals, including architects, engineers, BIM modellers, drafters, 3D and multimedia artists, and project management specialists. From the beginning, our mission has been to deliver precise, high-quality architectural, civil, and mechanical engineering solutions supported by both national and international project experience.

Over the years, we have built a strong reputation for reliability, technical excellence, and customer-focused service. Our team consistently delivers projects on time, within budget, and to the highest quality standards. This commitment to performance and client satisfaction has positioned Everest BIM as a trusted partner for organizations seeking innovative and efficient engineering solutions.



Mission And Vision



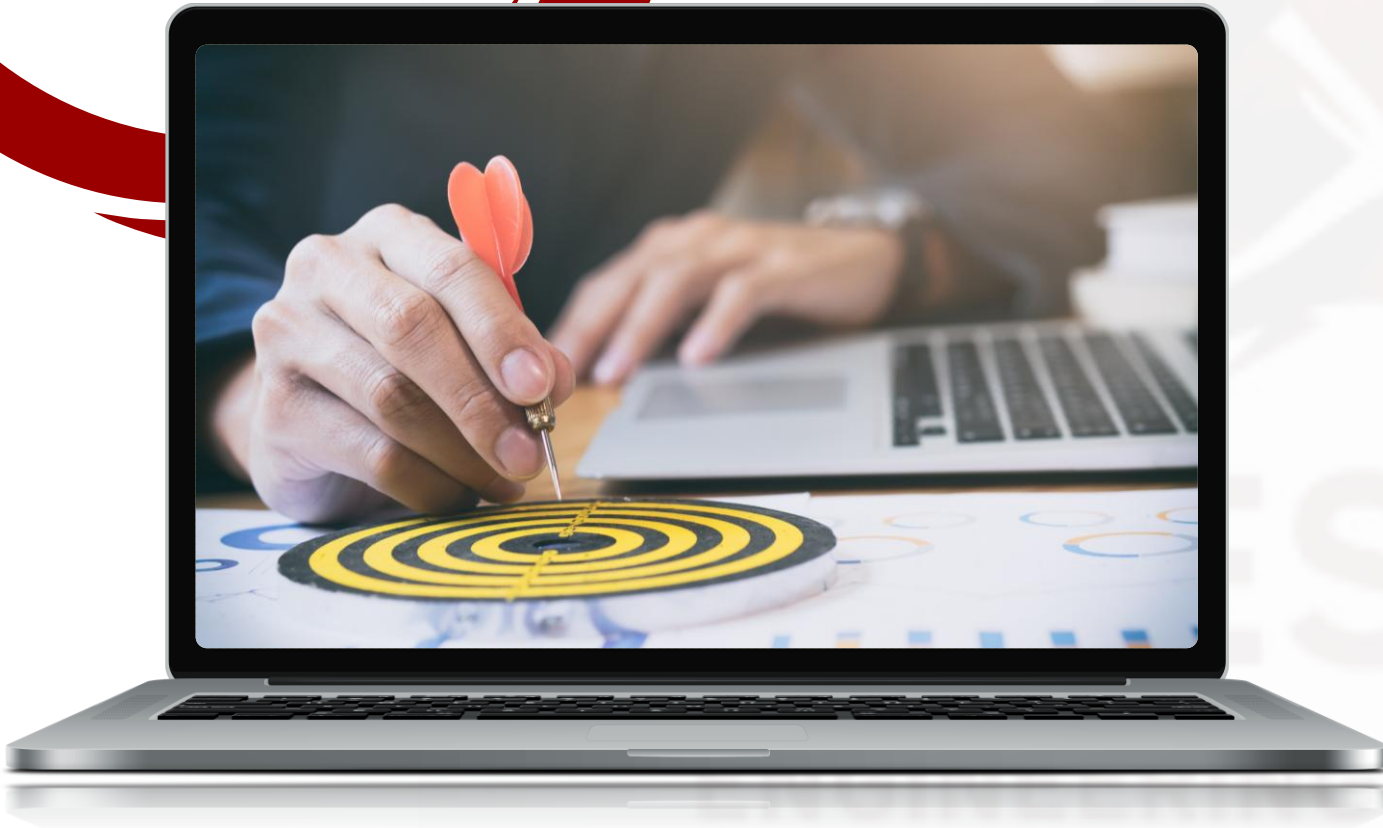
Mission

To empower architects, engineers, and construction professionals with precise, innovative, and future-ready BIM solutions that elevate project accuracy, strengthen collaboration, and accelerate delivery. We are committed to transforming complex design challenges into seamless digital workflows through expertise, integrity, and unwavering attention to detail.



Vision

To be a globally recognized leader in BIM excellence—driving the digital evolution of the built environment through advanced technology, multidisciplinary expertise, and a relentless pursuit of quality. We envision a future where intelligent modelling, data-driven decision-making, and collaborative design shape smarter, more sustainable spaces for generations to come.



Our Services

— Built on Experience. Driven by Precision.

BIM Management

We engage as your extended digital delivery team—setting up BIM workflows, managing sub-consultants, and ensuring every model and document aligns with project BEP.

Scope Includes:

- BIM Execution Planning (BEP)
- Team onboarding and workflow setup
- Clash detection and coordination
- QA/QC protocols and delivery oversight
- Custom plugin and script development

BIM Implementation

Everest BIM supports consultants, Construction and design firms in their transition to BIM—offering end-to end guidance that goes beyond software setup. We help build the digital backbone of your practice, aligning BIM workflows with your company's vision & project goals.

We Offer:

- BIM Migration Strategy: Assessing current workflows and defining a clear roadmap for BIM adoption.
- Team Structuring: Identifying the ideal BIM team size and roles based on your firm's scale and ambitions.
- Leadership Selection: Helping you appoint a capable BIM Manager to drive implementation and team growth

- Standards Development: company-specific BIM, creating protocols, documentation workflows, and BEP frameworks.
- Template & Family Creation: Building custom Revit families, templates, and libraries tailored to your design language.

Whether you're starting from scratch or scaling up, Everest BIM ensures your BIM foundation is strong, smart, and future-ready.

Project-Based Outsourcing (By Documentation Stage)

We take on full-scope or stage-specific BIM and documentation tasks—allowing your in-house team to focus on design while we handle precision delivery. Documentation Stages:

- ✓ Schematic Design (SD): Conceptual modelling and early-stage coordination.
- ✓ Design Development (DD): Detailed modelling, parametric refinement, and sheet setup
- ✓ Construction Documentation (CD): Full drawing production, detailing, and compliance
- ✓ As-Built / Scan-to-BIM: Post-construction modelling and documentation

Disciplines Covered:

- Architecture
- Structure
- Infrastructure
- Interior Design
- Landscape
- Façade



BIM Approach

– “ Empowering design with data. Delivering with purpose.”

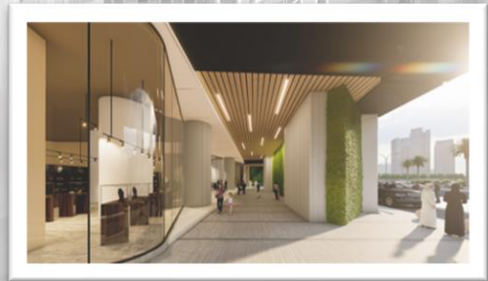
At Everest, our BIM philosophy is built on clarity, collaboration, and intelligent delivery. We view Building Information Modelling not simply as a digital tool, but as a strategic framework that bridges design intent with construction reality. Our methodology aligns with leading global standards, including ISO 19650 (Level of Information Need), ensuring that every project benefits from structured, reliable, and interoperable information.

Key Aspects of the BIM Approach

- Lifecycle Management: BIM spans the entire project, including conceptual design, construction, and operation.
- Data-Rich Modelling: Beyond 3D, elements contain metadata (dimensions, materials) that update automatically, ensuring accuracy.
- Collaboration: Interdisciplinary teams (architects, engineers, contractors) work in a shared data environment, enhancing coordination and reducing conflicts.
- Key Pillars: The approach relies on three core components: Technology (software), Processes (workflows), and People.

Benefits and Implementation

- Enhanced Efficiency: The systemic approach allows for precise analysis of time, cost, and geometry.
- Improved Accuracy: BIM-based approaches achieve higher quantity take-off (QTO) accuracy (over 95%) compared to traditional methods.
- Reduced Risk: Early, collaborative involvement of stakeholders and clash detection minimizes on-site errors and delays.
- Maturity Levels: BIM adoption ranges from Level 0 (non-collaborative) to Level 3 (fully integrated, interoperable system)



BIM Management

BIM (Building Information Management/Modelling) Management involves overseeing the digital, 3D model-based process for design, construction, and operation, ensuring collaboration, efficiency, and data accuracy across project lifecycles. BIM Managers define standards, manage 3D models, perform clash detection, and facilitate information exchange among teams to reduce errors and material waste.

1. BIM Strategy & Project Start

- Set BIM goals aligned with the client and project needs.
- Create the BIM Execution Plan (BEP).
- Define LOD/LOI requirements.
- Select suitable BIM tools and a Common Data Environment (CDE).

2. Design Integration

- Guide all disciplines through LOD 100–300 model development.
- Build and manage the federated model.
- Run clash detection and resolve issues using Navisworks and ACC.
- Lead coordination meetings using shared models and reports.

3. Digital Collaboration & Data Management

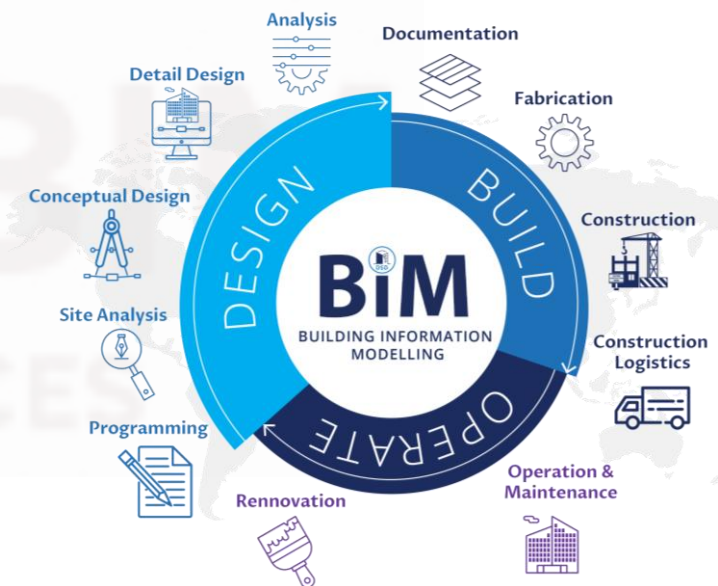
- Manage the CDE for controlled, secure data sharing.
- Perform regular model audits and QA/QC to ensure accuracy and BEP compliance.

4. Construction Support

- Support LOD 350–400 development for fabrication and shop drawings.
- Ensure models are constructible and aligned with contractor needs.

5. Handover & Lifecycle Support

- Deliver LOD 500 as-built models with CoBie data.
- Prepare models for Digital Twin use.
- Provide training and documentation for client teams.



CDE – Common Data Environment

Everest BIM can operate seamlessly inside a Common Data Environment (CDE) by using it as the central hub for all design, coordination, and project information. The CDE becomes the foundation that supports Everest BIM's workflows across the entire project lifecycle.

1. Centralized Model Management

- Everest BIM uploads and manages all discipline models (Architecture, Structure, MEP, etc.) within the CDE.
- Ensures everyone works from the latest, approved model versions.
- Supports federated model creation directly from CDE-hosted files.

2. Real-Time Collaboration

- Teams can review, comment, and coordinate directly inside the CDE.
- Everest BIM uses shared spaces for markups, clash reports, and design updates.
- Eliminates file transfers and reduces miscommunication.

3. Issue Tracking & Clash Resolution

- Everest BIM integrates clash detection workflows (e.g., Navisworks + ACC).
- Issues are logged, assigned, tracked, and resolved through the CDE.
- Ensures transparent accountability and faster decision-making.

4. Controlled Data Exchange

- The CDE manages permissions for the Everest BIM team members and external stakeholders.
- Ensures secure sharing of models, drawings, RFIs, and documents.
- Maintains a full audit trail of changes and approvals.

5. Standardized Documentation

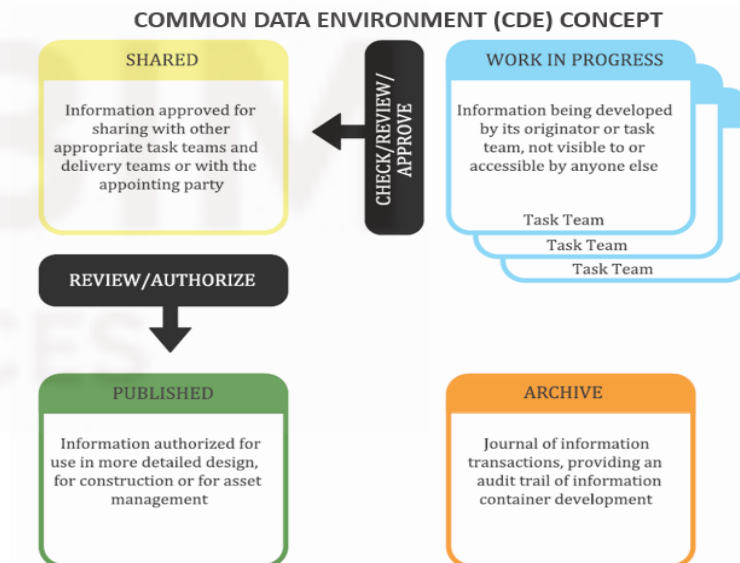
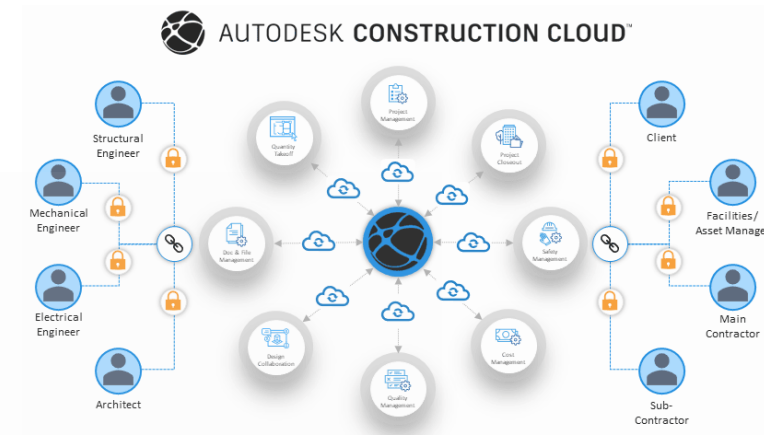
- Everest BIM stores all BEP documents, LOD matrices, specifications, and schedules in the CDE.
- Ensures consistent standards across all disciplines.
- Supports automated version control and document workflows.

6. Construction & Fabrication Support

- Contractors access fabrication-ready models (LOD 350–500) directly from the CDE.
- Everest BIM can publish shop drawings, installation details, and model updates in real time.
- Reduces rework and speeds up site coordination.

7. Handover & Digital Twin Enablement

- Everest BIM delivers LOD 500 as-built models and CoBie data through the CDE.
- The CDE becomes the long-term repository for FM and Digital Twin integration.
- Ensures smooth transition from design to operations.



LOD 100 (Conceptual): Elements are represented by 2D symbols, massing, or generic representations. It signifies the existence of a component but does not define its exact shape, size, or location, often used for preliminary studies.

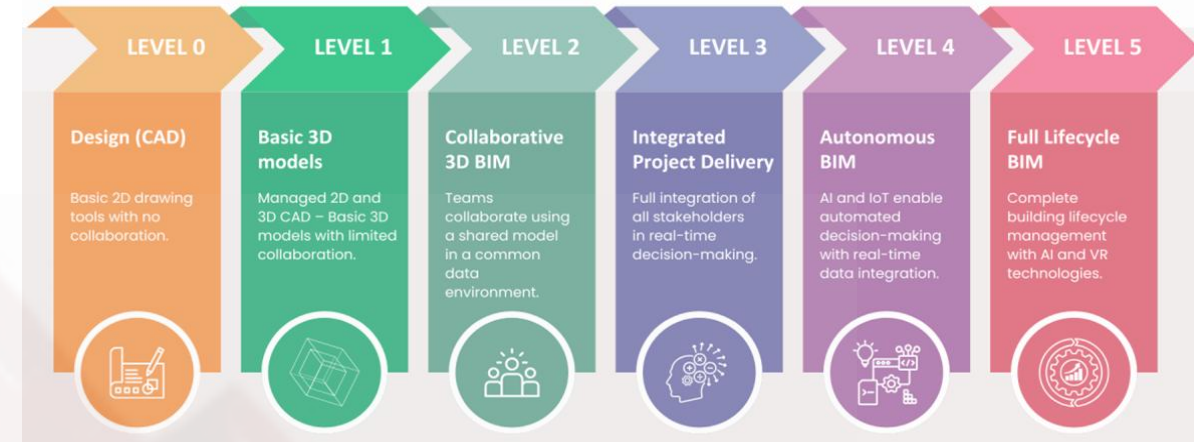
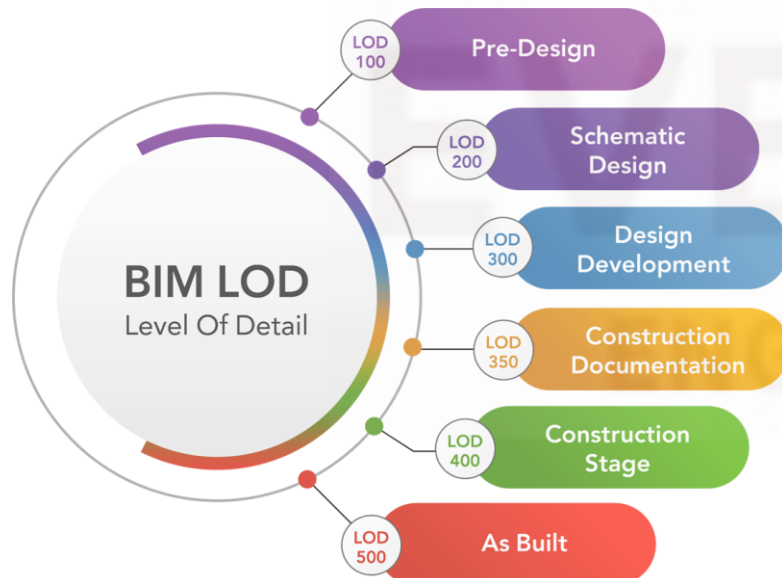
LOD 200 (Schematic): Elements are modelled as generic systems or assemblies with approximate quantities, size, shape, location, and orientation.

LOD 300 (Detailed/Precise): Elements are accurately defined in terms of quantity, size, shape, location, and orientation. This level is suitable for detailed design, costing, and construction documents.

LOD 350 (Coordinated): Adds to LOD 300 by defining how elements interact with other systems (interfaces and connections), essential for MEP coordination and clash detection.

LOD 400 (Fabrication-Ready): Elements are modelled with enough detail to allow for fabrication, assembly, and installation. It includes specific details for manufacturers and contractors.

LOD 500 (As-Built): Represents the verified, as-constructed state of the building. It is used for facility management and maintenance.



Clash detection is more than a technical exercise—it's a proactive design intelligence strategy that turns coordination into confidence. Every clash becomes an opportunity to refine design intent, align disciplines, and improve execution.

Precision Through Prediction

We use Navisworks with a forward-thinking approach. By federating models early and running structured clash tests across architecture, structure, MEP, and interiors, we prevent issues before they surface. Each resolved clash moves the project closer to seamless construction.

Collaboration Over Correction

Clash detection is a conversation, not a checklist. We encourage open, interdisciplinary reviews where architects, engineers, and consultants co-create solutions. This collaborative rhythm builds trust, reduces rework, and supports informed decision-making.

Data-Driven Accountability

Our clash reports are strategic tools. With severity levels, timelines, and audit trails, we ensure transparency and accountability at every stage. Clients and contractors gain clarity—not just coordination.

Clash detection is fully embedded in our BIM workflow—from LOD 200 schematic coordination to LOD 500 as-built redlines. Our models evolve with built-in intelligence, ensuring every element is placed with purpose and precision.

Clash Detection Matrix

A clash detection matrix defines which discipline models should be tested against each other. It prioritizes critical clash pairs, assigns responsibility, and ensures a consistent, repeatable clash-checking process throughout the BIM lifecycle.

Types of BIM Clash Detection

1. Hard Clash

A physical conflict where two elements occupy the same space. Example: A pipe intersecting a wall or column. Detection: Geometry-based checks (Navisworks, Revizto). Resolution: Redesign or reposition the conflicting elements.

2. Soft Clash (Clearance Clash)

A spatial conflict where required clearances or safety zones are not met. Example: Insufficient clearance in front of an electrical panel. Detection: Rule-based checks using predefined tolerances. Resolution: Adjust layouts to meet operational and safety standards. Soft clashes ensure the design is not only buildable but safe and functional.

3. Workflow Clash (4D Clash)

A sequencing conflict in the construction schedule. Example: Drywall installation planned before electrical rough-in. Detection: 4D BIM simulation (model + time). Resolution: Adjust construction sequencing and logistics.

	ARCH	STR	HVAC	ELECTRICAL	PLUMBING
ARCH	A	C	E	J	L
STR		B	F	H	M
HVAC			D	I	N
ELECTRICAL				G	O
PLUMBING					K

Beyond 3D:

The Dimensions of BIM

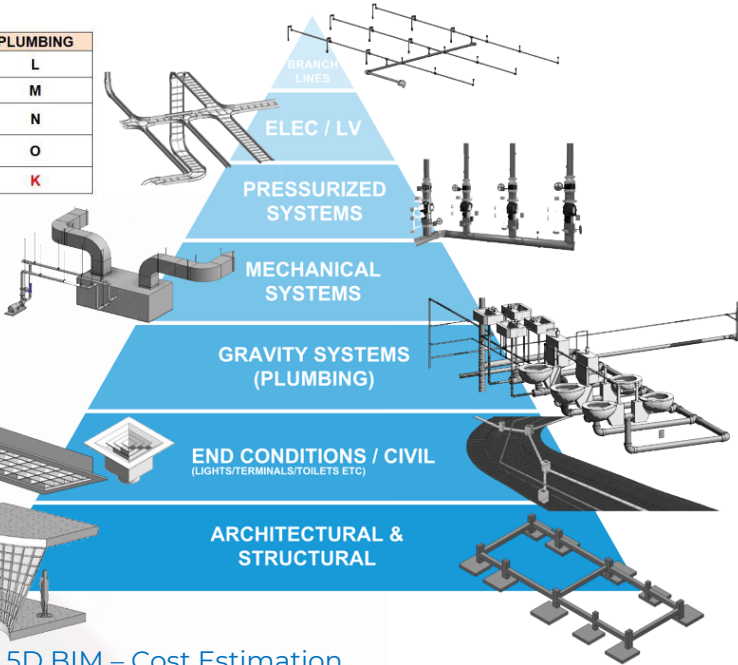
Building Information Modelling goes far beyond 3D geometry. It is a data-rich, multi-dimensional process that supports design, construction, and facility management across several integrated dimensions.

3D BIM – Geometry & Visualization

Focus: Spatial design and coordination. Purpose: Create intelligent 3D models for architecture, structure, and MEP. 3D BIM turns design intent into clear, coordinated spatial form.

4D BIM – Time & Scheduling

Focus: Construction sequencing. Purpose: Link model elements to project timelines. 4D BIM enables accurate planning and efficient execution.



5D BIM – Cost Estimation

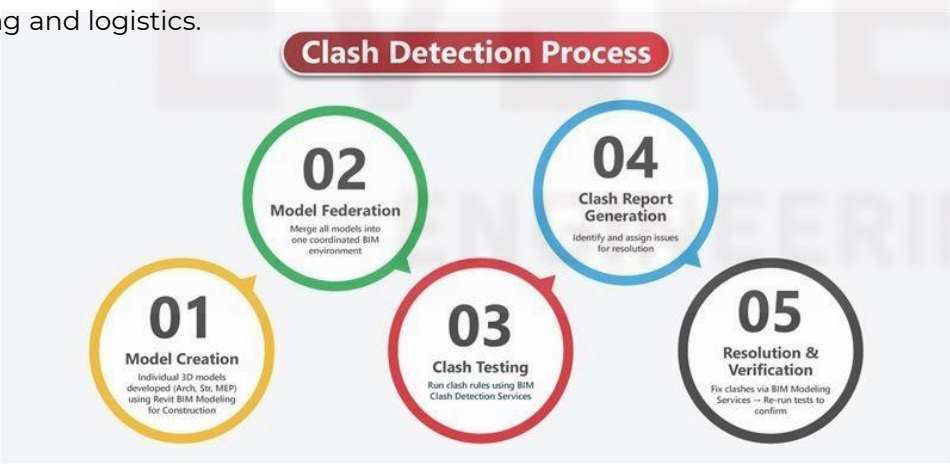
Focus: Budgeting and quantity take-offs. Purpose: Integrate cost data with model components. 5D BIM supports informed design decisions by connecting design to cost.

6D BIM – Sustainability & Energy Analysis

Focus: Environmental performance. Purpose: Embed data for energy modelling, carbon tracking, and lifecycle analysis. 6D BIM helps design responsibly—balancing form, function, and sustainability.

7D BIM – Facility Management

Focus: Operations and maintenance. Purpose: Deliver as-built models with asset data for FM systems. 7D BIM turns models into long-term digital assets for intelligent building management.



Contact Us

Mobile: +91 95974 70362
+91 96299 80385
+971 5235 87882

Email: info@everestbim.com

Website: www.everestbim.com



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