A Presentation on

BIM Implementation for Construction Projects and Developer
Welcome to the world of CSoft Services!

CSoft is a Norwegian company with a unique skillset of engineering design using AEC, Development on CAD Open API and more. CSoft have more than fifteen years of intellectual nourishment in the global arena.
Vision

- To become a think-tank in intellect power outsourcing, in the arena of Building Information Modelling (BIM) services

- To supply services to market, leaders in engineering design and drafting. Our target is to transform any dream into reality. To become a sample of cost-effectiveness and accountability with providing a very skillful and opportune design solutions to our proud customers. One-stop solution for a creative and unique solution to any engineering design and drafting, anywhere at any time.

- Power to set the yardstick in design and drafting, without any hesitation
What is BIM
Building Information Modeling
for Construction Projects
and Developer?
Building Information Modeling (BIM) is a digital representation of physical and functional characteristics of a facility.

BIM is the shared knowledge resource of information. It is also the life time quality administration of any project. BIM, not only manages and model graphics, but also all information. This information allows automatic generation of drawings and reports with design analysis, schedule simulation, facilities management, and much more.
What are BIM
Building Information Modeling Technology
Advantages?
BIM - Advantages

Faster Conceptualization
Design Visualization

- Direct 3D modeling
- Volumetric study
- Solar study and shadow analysis
Decision making - Feasibility vs. Viability
Option selection

BIM - Advantages

Design Alternatives

Design Constructability

Budget Planning

Material Selection

Engineering Changes made Easy
BIM - Advantages

Construction Document Generation
Prefabrication

Interlinked interface
Structural Detailing

Using third party structural analysis software, design validation and safety can be ensured.

- Economical use of reinforcement
- Reduce wastage
- Accurate amount of reinforcement for procurement
BIM - Advantages

Service planning - MEP

- Planning of HVACs in 3D
- Flow analysis - throw & return
- Energy simulation - Heat loss & heat gain
- Clash detection & co-ordination
- Electrical load calculation
- Plumbing design
- Construction Drawings
- Fabrication details to vendor
BIM - Advantages

BOQ & Cost Estimation
- Itemized quantity extraction
- Accurate quantity material takeoff
- No additional manipulation
- Specification compliance
- CPWD / others BOQ formats
- Billing

Project Management
- Phasing and monitoring of volume of work
- Inventory and store management
- Taskforce planning & manpower management
- 4D real time simulation
- Bill verification
BIM - Evolution of New Design Process

PD: Pre-design  SD: Schematic design  DD: Design development  CD: Construction Documentation  PR: Procurement  CA: Construction Administration  OP: Operation

1. Ability to Impact Cost & Functional Capabilities
2. Cost of Design Changes
3. Traditional Design Process
4. Preferred Design Process

Effort/Effect  SD  DD  CD  PR  CA  OP

Time

Engineering Changes made Easy
• What are those other benefits of BIM Technology
BIM - Benefits

- Accuracy & Reliability
- Time Saving Technique
- Cost Effective Solution
- Easy Information Exchange
- 3D printing of Mockups
- Simulation
- Inventory & Asset Management
- SCADA & BMS Integration
- Building Operation Management
BIM PROJECTS

Case Studies

Residential Building
Service Planning & Modeling
Clash View Modeling
Structural Modeling
Office Space Interiors
Commercial Interior
Residential Interior
Residential Exterior
Building Exterior

Case Studies

Engineering Changes made Easy
Residential Building

Scope of work:
3D Visualization
BOQ & Tender Documents.
Complete CD
Residential Building

Scope of work:
3D Visualization
Energy Analysis
Structural Detailing
BOQ
Pre-fabrication
Scope of work:
3D Visualization
Clash Point Checking
& Solutions
Pre-fabrication
Clash View Modeling

**Scope of work:**
3D Visualization
Clash Point Checking
& Solutions
Pre-fabrication
Scope of work:
Steel Structural BIM Model
G.A & Detail Drawings
Shop Drawing
Scope of work:
3D Visualization & Photorealistic
Scope of work:
3D Visualization
Scope of work:
3D Visualization
Client Choice
Residential Interior

Scope of work:
3D Visualization & Photorealistic
Scope of work:
3D Visualization & Photorealistic

Daylight View

Night View
Residential Exterior

Scope of work:
3D Visualization & Photorealistic
Contact

CSoft Norway

Frode Rødland, fro@csoft.com
+47 92892800

CSoft India

Arun Talukdar, arun@csoft.com
+91 9748468686
Thank You

From Team