

How BIM Management using a CDE helps make complex projects simpler to manage.

Construction projects are complex and multidisciplinary, involving numerous stakeholders throughout each phase from design, through construction, to handing over. A BIM model allows viewing and sharing of information in a simple way for all the people involved. Such collaboration at the design and preconstruction phases is crucial for a project's success.

Prodesign provides BIM Management and Coordination services to set up and maintain the right framework to correctly use BIM in a construction project. BIM Management involves assigning the responsibilities and workflows through the BIM Execution Plan, ensuring BIM is deployed to the same level by each member of the project team. It is recommended to use a Common Data Environment (CDE) as a virtual location where all information is accessible and managed for more effective collaboration. This is aimed at helping clients reap all the benefits BIM brings to a project, especially lower construction costs and better quality builds.

Our cloud based-BIM CDE solutions allow design teams and other stakeholders to share project BIM models, coordinate the design, exchange insights, request and view changes, making collaboration seamless and in real time. The client can also participate in each process, comment on the progress, check compliance with brief and make decisions with better understanding of the project. The CDE does not require a BIM software and can be viewed from any location and device, providing great ease of access. The platform gives users direct access to the BIM models without having to download files. Details of the model can be viewed instantly, comments can be made on the platform, latest revisions are updated and communication can be tracked on the platform itself, eliminating long email chains. The digital model allows designers to work on the project at the same time through iterative review rounds with issues and mark-ups. This saves time, improves communication, reduces lengthy meetings and strengthens understanding of the project through 3D visualisation of data-rich models on a platform that also caters for a proper documentation system.

The major benefits to the client are improved efficiency, time saving and reducing the potential for costly rework. The client can participate more thoroughly at different stages of the project and visualise the project which facilitates decision making and approvals.

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BIM IN REVIEW

Ongoing project using a CDE

We are currently working on the 37,708 m² Telfair North development project by ENL, providing BIM Management services for the whole project and MEP consultancy for two blocks. We have successfully implemented a CDE for the coordination and management of this project.

The whole team, including the architect, the structural engineers, the M&E engineers, the main and sub contractors, is collaborating on BIMsync. Responsibilities are clearly assigned and deadlines can be easily monitored. All stakeholders including the client can visualise the up-to-date model, coordinate the model, raise issues and track progress. All relevant documents and model revisions are uploaded with unlimited storage on the cloud-based software. The software allows proper versioning where a user can view the latest versions as well as compare revisions to better understand the model.

Coordination is being done on BIMsync, where issues are flagged with proper visibility on their status. This improves traceability and accountability. As BIM Manager, we are able to perform clash detection and model validation. We also ensure the BIM Execution Plan is deployed correctly and make sure the whole project team is conversant with BIM and are working to the same level. The benefits of BIM are greater when everyone is on board with BIM from the start and throughout. BIM helps to reduce conflicts before construction and since the client can see what their project will look like, changes are not required at a later stage which reduces additional costs and saves time.

Are you interested in our BIM Management Services?
Contact us to know more.