

BIM BUILDING INFORMATION MODELING





Building Information Modeling

The BIM methodology originated in 1975 with early academic work. Since the development of integrated project management in 2000, the methodology has evolved rapidly, especially with the adoption of BIM in the USA and England, and the first formal requirements in Finland in 2012. Three years later, the Chilean government initiated efforts to implement BIM in all public projects through the BIM Plan, with CODELCO joining the initiative in 2015.

Today, working with virtual models is essential. The mining industry increasingly requires the use of BIM, which is now considered vital for engineering projects.

BRASS has incorporated the 3D-BIM Model discipline to implement, standardize, and develop this methodology in engineering projects. Our team is highly trained in all the roles that define the methodology and is proficient in the relevant software tools. This expertise allows us to work in parallel and in coordination within a consolidated model hosted in the cloud, providing secure accessibility for our clients.



Collaborative work

In the development of a project, information and data exchange must be managed through a Common Data Environment (CDE)- an open digital space that is accessible to all members work teams involved in the development of project. This shared environment ensures coordinated planning with fewer errors and improved interface management.

BIM equips architecture, engineering, and construction professionals with the knowledge and tools to plan, design, construct and manage buildings and infrastructure more efficiently.



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The benefits to work with BIM methodology

When the full potential of BIM is used, the entire process can be optimized, from preliminary design to construction and operation.

The following charts compares the effort invested in a project carried out using the traditional process with one using the BIM methodology.



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Background in 3D BIM designs

Our engineering projects development using the latest technological design tools to generate 3D, 4D, and 5D models according to the different levels of information and graphics required by each project.

The technological implementation and the continuous training of our professionals allows us to execute projects with traditional 3D models for the generation of deliverables, as well as to carry projects using the BIM methodology to optimize the use of 3D models throughout the life cycle of the projects.



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