**What is BIM?**

BIM (Building Information Modeling) is an intelligent 3D model-based process that gives architecture, engineering, and construction (AEC) professionals the insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure.

Building Information Modeling or BIM is the process of generating and managing building data and its various components during its life cycle. Using three dimensional, real-time, dynamic building modeling software to increase quality in building design and construction, the process produces the Building Information Model. BIM encompasses building geometry, spatial relationships, geographic information, quantities and properties of building components. Unlike past 3D innovations in the building industry, BIM is more than a conceptual modeling tool. When the modeling software is used by manufacturers and principals involved in a building project, the resulting BIM is usable for fabrication. It involves ground-up reality rather than top down theory.

BIM achieves such improvements by modeling the actual parts and pieces used to construct a building. This is a substantial shift from the traditional computer-aided drafting method of drawing with vector file-based lines that combine to represent objects. The objects used in BIM are scaled to represent the actual dimensions of materials used to construct various types of projects.