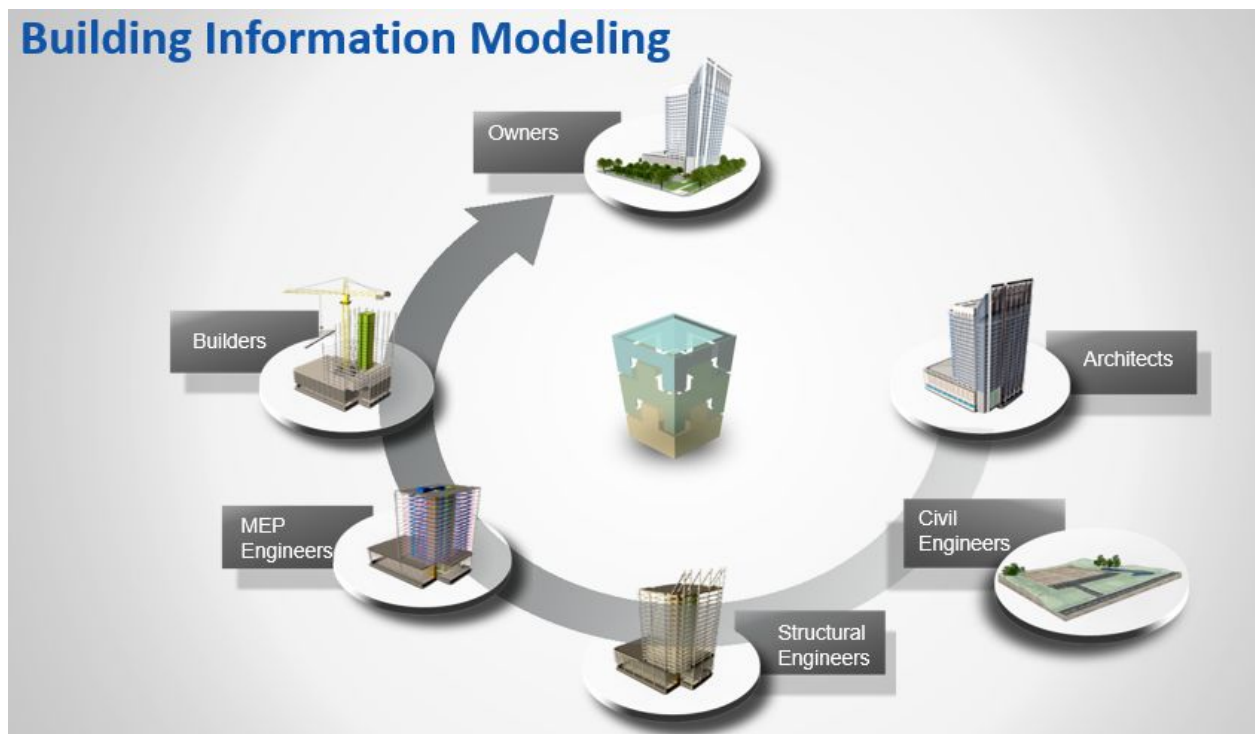# Building Information Modeling

What is BIM?

Building Information Modeling (BIM) is an intelligent model-based process that provides insight into creating and managing building and infrastructure projects faster, more economically, and with less environmental impact. Autodesk BIM software includes a comprehensive portfolio of solutions for design, visualization, simulation, and collaboration that uses the rich information in the intelligent model to inform better decision-making and break down the barriers to better business.

Building information modeling is not a product or registered software program. It is an integrated process built on coordinated, dependable information about a project from planning through design, construction and into operations. BIM is not just for architects. While it has its roots in architecture, the principles of BIM apply to anything that is built, including rail, roads and highways, and the benefits
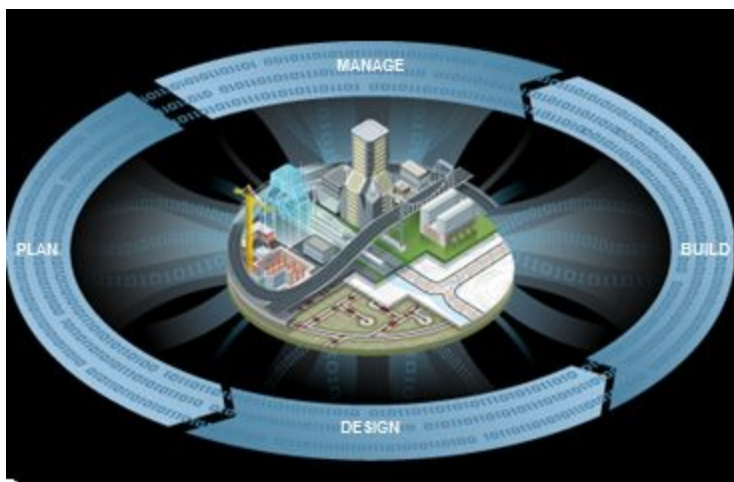
of BIM are being experienced by engineers in the same way as they are enjoyed by architects.

BIM is not just about 3D (although 3D is a part of it). BIM allows engineers to foresee the performance of projects before they are built onsite; respond to design changes faster; optimize designs with analysis, simulation, and visualization; and deliver high quality construction documentation. Furthermore, it enables extended teams to extract valuable data from the model to facilitate quick decision-making, environment-friendly designs and more economic project delivery.

Why Autodesk is the BIM Leader?

Help prepare students to:

- Understand BIM and IPD (Integrated Project Delivery)
- Improve their marketability to gain employment
- Broaden BIM portfolio for the project lifecycle
- Use BIM in conjunction with AutoCAD® software
- Use the Power of the Cloud to gain results instantly

Autodesk Revit

> Autodesk Revit® building design software is specifically built for Building Information Modeling (BIM), with features Building design, MEP and structural engineering and construction. It lets you bring ideas from concept to construction with a model-based approach. Revit is available only as part of Building Design Suite Ultimate.

Autodesk Revit building design software works the way civil engineers, architects, and designers think. This enables you to develop building designs that are more accurate and of higher quality. Built for Building Information Modeling (BIM), this software helps you capture and analyze concepts and maintain your vision through design, documentation, and construction. It lets you make more informed decisions with information-rich models to support sustainable design, construction planning, and fabrication. Automatic updates keep your design and documentation coordinated and more reliable.