

## **ROLE OF BUILDING INFORMATION MODELLING (BIM) IN SUSTAINABLE CONSTRUCTION**

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### **Abstract**

In Pakistan, the construction industry majorly covers concrete and masonry type of buildings. Both concrete and masonry are dependent upon natural resources including clay, sand, rock, water and fossil fuel. Many of these materials, when extracted, used and maintained, have environmental, economic and institutional impact. With proper technical analysis using available BIM tools, we can measure the above mention impacts and can control them to achieve sustainable solution in construction. There are several BIM tools available that can be used for modelling a limited set of information, among these tools the Autodesk Inc. provide a set of BIM tools that cover most of the construction information modelling and management while taking care of the sustainability of the modelled project. In this paper the authors have highlighted the role of BIM in the developed countries in context of how to utilize BIM in construction projects in Pakistan to achieve a technically sound, economic, environmental friendly, socially acceptable and institutionalized sustainable solution.