

Building Information Modelling (BIM) for Productivity, in Rehabilitation and Repair of Buildings

Boulkenafet Nabil and Bouabaz Mohamed

Department of Civil Engineering LMGHU Laboratory

University 20 Aout 1955

Skikda, Algeria

nabil-bilo@hotmail.com, mbouabaz@hotmail.fr

Abstract

The work presented in this paper, aims to construct a Building Information Modelling (BIM) related to productivity in the rehabilitation of residential buildings in Algeria, due to a large dilapidated housing stock, by providing a simulation model to optimize the productivity ratio in the rehabilitation building project for less expenditure and time saving. A large number of rehabilitation projects are confronted to a major problem in terms of financial support because of the age and complexity of the proposed quantities of rehabilitation work needed to be undertaken. A statistical analysis was carried out on the data collected on the sites studied and discussed in this document.

Keywords; Building Information Modelling (BIM), Productivity, Rehabilitation

Biography

Boulkenafet Nabil is an architect teaching in the Department of Civil Engineering, Faculty of Technology at the University 20 August 1955- Skikda, Algeria. Began his studies in architecture at the institute of architecture and urbanism at the University of Constantine and hold a degree of magister in civil engineering in the field of rehabilitation of old buildings. Responsible for study and monitoring of the realization of numerous projects centered on technical studies in architecture and urbanism (CETAU). Architect at URBATECH Annaba agency. He was a member of the design team in the construction section of the Japanese group, responsible for the realization of the East-West Algerian motorway. He is currently working on productivity in the building sector.