

# Pengembangan Standar Operasional Prosedur Berbasis Green BIM Pada Tahap Schematic Design Proyek Gedung Ditinjau dari Sudut Pandang Konsultan Arsitektur Studi Kasus PT.X = The Development Of Green BIM-Based Standard Operating Procedure on Schematic Design of Building Projects To Improve Duration Performance From The Architectural Consultants Perspective [Case Study PT X]

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## Abstrak

Meningkatnya kebutuhan bangunan yang berkelanjutan dan berkinerja tinggi serta perkembangan teknologi komputasi pada industri konstruksi yang mendorong para stakeholder suatu proyek untuk menggunakan teknologi terkini. Building Information Modelling (BIM) merupakan salah satu teknologi yang dapat membantu proses perancangan desain bangunan berkonsep green building. BIM dapat melakukan evaluasi kinerja energi dan penilaian berkelanjutan yang diartikan dengan Green BIM. Penelitian ini bertujuan untuk mengetahui aktivitas-aktivitas, stakeholder serta peranan Green BIM pada tahap Schematic Design proyek gedung, yang dikembangkan dengan suatu Standar Operasional Prosedur implementasi Green BIM. Metode yang digunakan berupa data sekunder dan melakukan interview kepada responden yang terlibat pada Kantor Konsultan Arsitektur. Hasil dari penelitian ini adalah Standar Operasional Prosedur dan gambaran hubungan antar aktivitas pada tiap strategi dalam tahap Schematic Design, fungsi peran dan stakeholder yang terlibat serta alur pertukaran data.

The increasing need of sustainable and high-performance buildings and also the development of computational technology in the construction industry that encourages stakeholder in a project to use the latest technology. Building Information Modeling (BIM) is one of the technologies that can help the design process of building design with a green building concept. BIM can evaluate energy performance and ongoing assessments that are interpreted by Green BIM. This research aims to determine the activities, stakeholders and the role of Green BIM to improve duration performance on schematic design phase of building projects, which was developed with a Green BIM based Standard Operating Procedure. The methodology is based on secondary data and interview with the respondents who contribute in Architecture Consultant Office. The result is Standard Operating Procedure and illustrates the relationship between activities in each strategy on schematic design phase, the roles of stakeholders and the data exchange flow.