

Pemodelan dan Evaluasi Jalan Lingkar Universitas Indonesia dengan menggunakan Building Information Modeling = Modeling and Evaluation of University of Indonesia Ring Road using Building Information Modeling

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Abstrak

Building information modeling (BIM) sebagai salah satu perkembangan yang paling menjanjikan pada industri Architecture, Engineering, dan Construction (AEC) belakangan ini, menawarkan potensi untuk mengurangi biaya, meningkatkan produktivitas dan kualitas, hingga mengurangi waktu penyelesaian proyek. Sementara implementasi BIM pada bangunan baru sudah mulai umum, mayoritas bangunan eksisting masih belum dipelihara atau diperbaharui menggunakan BIM. Pada penelitian ini infrastruktur eksisting dimodelkan menggunakan BIM. Model BIM selanjutnya disimulasikan berdasarkan jarak pandang henti untuk mengevaluasi kelayakan infrastruktur eksisting. Hasil penelitian memperlihatkan mudahnya proses iterasi dan simulasi desain begitu model BIM selesai dikerjakan.

..... Building information modeling (BIM) as one of the most promising recent developments in the architecture, engineering, and construction (AEC) industry offers the potential to decrease project cost, increase productivity and quality, and reduce project delivery time. While BIM processes are established for new buildings, majority of existing building is not maintained, refurbished, or deconstructed with BIM yet. Building Information Model of existing road segment will be created in this research for the purpose of evaluating existing road segment based on stopping sight distance. Result shows the ease of use of BIM software for simulation and design iteration purpose once the building information model is completed.