Pengembangan model prediksi durasi robabilistik proyek pembangunan gedung bertingkat tinggi berbasis faktor pengaruh eksternal terukur = Development of probablistic duration project prediction model for high rise building based on external influence factors

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Abstrak

ABSTRAK
Prediksi durasi banyak dilakukan oleh para pemangku kepentingan berdasarkan pengalaman atau intuisi mereka. Hal ini menyebabkan perkiraan durasi memiliki risiko kesalahan yang dapat menggangu proses pelaksanaan konstruksi. Penelitian ini mencoba mengembangkan suatu model pendekatan prediksi durasi proyek berdasarkan metode prediksi durasi akhir proyek Earned Schedule, yang merupakan pengembangan metode Earned Value, dan memanfaatkan faktor-faktor pengaruh eksternal yang tersedia dalam informasi resmi. Selain itu penelitian ini mengakomodasi kondisi ketidak pastian yang umum terjadi di lingkungan negara berkembang semisal Indonesia. Ketiga hal tersebut dirangkum dalam suatu model pengembangan prediksi durasi probabilistik berdasarkan faktor pengaruh eksternal. Hasil penelitian menunjukan adanya hubungan antara beberapa faktor pengaruh terukur dengan durasi probabilistik proyek konstruksi.
<hr>ABSTRACT
The prediction of project duration is mostly calculated based on the experience or intuition of the estimator. This causes the estimated duration to have an error risk that could disrupt the construction process. This research tries to develop a project duration prediction approach model based on the Earned Schedule project's final prediction method, which is the development of the Earned Value Method, and utilizes the external influencing factors available in official information. In addition, this study accommodates uncertainty conditions that are common in developing countries such as Indonesia. These three matters are summarized in a probabilistic duration prediction development model based on external influencing factors. The result of the research shows that there is a sufficient correlation between several factors of measured influence with the probabilistic duration of the construction project. </p>