

[環境システム工学]

33-1 Information Embodiment by Virtual Model for Construction Project

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A cycle of construction management process is the Plan, Do, Check and Action. Inconsistency in the construction planning usually turns out after actual activities start. Finding flaws on the site costs a lot of workload and money. On the other hand, the leverages of cost reduction and productivity enhancement of construction projects exist. This paper tries to simulate and to examine the management cycle in the computer as possible. This trial consists of the VM (Virtual Model), which is introduced in the past and the scheduling tools on the market. It enables to plan, and to reduce problems normally found after beginning construction.

Accordingly, construction activities will be economical and more efficient. Some results and discussions from pilot trial of an actual construction project is illustrated in the paper. Represented by the Sashiki-Bridge Construction Project in Kumamoto prefecture where is located in Kyusyu region, Japan.

(Implementing IT to obtain a competitive advantage

in the 21-st Century, Hong Kong, pp.566-574, 2000. 1.)