



BUSINESS BREAKDOWN STRUCTURE FOR CONSTRUCTION MANAGEMENT AND WEB-BASED APPLICATION SYSTEM

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The process for construction management (CM) includes much specialized information for the management of time, cost, and quality throughout the project life cycle. Accordingly, a standardized code system, such as a business breakdown structure (BBS) for classifying each CM business, is necessary for efficient information management of detailed CM tasks. The BBS for CM proposed in this study can make it possible to systematically classify documentary information, references, and management tasks that evolve from all the phases of a construction project. The organized BBS for CM consists in total of ten classification tables including the classifications for form of information, management subjects, and eight tables by the CM function. Because each CM task is processed by management information for a work on the construction site, it is also necessary to connect a BBS code with a work breakdown structure (WBS) code. This study suggests a method to integrate the two code systems and it can have applicability in facilitating the retrieval and management of information for CM processes. To verify the applicability of the BBS for CM, this study included a prototype web-based system including the integration between BBS and WBS codes and a new approach to use BBS and WBS in a 4D CAD system.

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