

Nattawat Chantana 2013: Developing a Prototype System for Knowledge Management in the Construction Industry. Master of Engineering (Civil Engineering), Major Field: Civil Engineering, Department of Civil Engineering. Thesis Advisor: Assistant Professor Piyanut Wethyavivorn, D.Eng. 100 pages.

Construction industry is an institute which employs different kinds of knowledge and groups of various specialists. During the working process, knowledge is commonly transferred in paper forms such as documents and manuals which easily disappear with time. Therefore, it is important to store the knowledge in order to reuse it more effectively in the future. Especially, storing the tacit knowledge in each person can become the explicit knowledge for further modification. Nowadays, information technology is a tool and one of the most important factors to manage and exchange knowledge. With the assistance of Internet and Intranet systems the exchanges can be simply convenient.

The object of this research was to investigate knowledge management programs used in Thailand and foreign countries including the user behaviors and skills in order to develop the most suitable prototype systems of knowledge management in the construction industry. By adopting the knowledge transfer via Internet systems, perspectives were exchanged correspondingly with the collected social behavior surveys to refine the tacit knowledge on becoming the explicit knowledge. However, this knowledge management system is merely an elementary. Once the application is active, more specific data are required to modify the system.

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Thesis Advisor's signature