

RESEARCH ON INFORMATION MODEL AND DATA USE OF THE CONSTRUCTION ENGINEERING WORKS

Abstract : With introducing I C T (information-communication technology) to construction field, the information transmission has substituted computerized information and network information for paper information. Based on that, the exchange of information, information sharing and linking at the construction stages between the organizations are achieved that makes the cost reduction, the quality improvement and the efficiency improvement of operations.

However, most of data systems are often designed for a specific construction site or machinery, and the definition of system are not opened, so construction information cannot be fully applied to other work sites or construction machinery. So, the research of the standard of the information model and the data in construction process is being carried out. And the information integrated construction is spreading in the construction site.

In the paper, the data dictionary and the information model for the filling work were constructed. The information integrated construction make information standard possible. A part of the result has received approval from ISO (International Organization for Standardization) secretariat, published at the ISO15143 Worksite data exchange 「Part1:System architecture」 「Part2:Data dictionary」 in December, 2008

Key words: Data exchanging standard, Information integrated construction, Information model, Schema, Data dictionary