

A Basic Study on the Evaluation of the Historical and Cultural Value of Civil Engineering Facilities Built after the Second World War

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SYNOPSIS

A large number of civil engineering facilities constructed during the period of rapid economic growth are facing the time of renewal, as about 70 years has passed since the Second World War. Though the principal mission of such civil engineering facilities is to keep functioning as the infrastructure to support people's life of an area, those facilities would also be a resource with historical and cultural value of the area, such as a symbol of development of the area and an important component of local landscape. In order to improve the quality of people's life, it is necessary to establish the method to estimate the historical and cultural value of such facilities appropriately and build the way to maintain and preserve them.

The purpose of this study was to build the methodology to evaluate the historical and cultural value of civil engineering facilities built after the Second World War, with a view to improving the quality of life through the maintaining and preserving them.

In this study, firstly, in order to grasp the construction trend and the technical genealogy, the particular history of civil engineering facilities in the field of bridge, railway, tunnel, dam, and industrial area has been summarized based on documents on the history of civil engineering and hearing survey to specialists. Secondly, focused on epoch-making projects, turn-around points of construction method, and revise of the technical standard, the range of research object of civil engineering facilities has been specified. Finally, based on these, the evaluation axis, the evaluation standard and the evaluation method have been examined considering the specialty of each field of civil engineering facilities.

These study results would contribute to the development of the methodology to evaluate the historical and cultural value of civil engineering facilities built after the Second World War.