
Technological development trends related to biodiversity in the construction field

- Analysis of presentations at the Japan Society of Civil Engineers and the Architectural Institute of Japan-

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Regarding biodiversity, which has become a social issue, in the field of construction, various measures are being taken in the design, construction, maintenance and management processes of civil engineering and construction, such as the conservation of rare animals and plants and the use of native species for greening. In this paper, we analyzed the technology development trends related to biodiversity based on the contents of presentations at the Japan Society of Civil Engineers and the Architectural Institute of Japan. As a result, it was confirmed that in the field of construction, there are many cases in which biotopes with green areas and waterfronts are installed in the technical research institutes of companies, etc., and that they are working on the development of greening-related technologies such as the greening of slopes and the greening of buildings. Technological developments such as the quantitative evaluation of the functions of greening and the creation of a database of rare animals and plants are also progressing along with advances in information and communications technology. Here, we have organized the trends of technological development related to future biodiversity based on the social background, including the 30 by 30 Goals.
