

## **An approach to the evaluation of the land use such as green space managed by enterprises**

Miwa T<sup>1)</sup>, Ito T<sup>2)</sup>,

1) Takenaka Corporation, Japan, 2) Sumitomo Forestry Landscaping Co., Japan

Japanese private companies started to make joint effort to promote the conservation and sustainable use of biodiversity and launched “Japan Business Initiative for Conservation and Sustainable Use of Biodiversity (JBIB)” on April 2008. JBIB has two working groups. One is the Research and Development (R&D) working group, and the other is the Communication working group. The objectives of the R&D working group are to enhance knowledge of national and international actions for the conservation of biodiversity, and to develop the methods, indicators, and guidelines to monitor and evaluate the actions.

The R&D working group currently carries out research on simple and easy evaluation technique of land use in their business establishment from the viewpoint of biodiversity. The R&D working group also carries out research on the impacts of supply chain on the biodiversity, and makes explicit illustrations to show the relationship. As a result, we recognized that enterprises, in their business activities, give an serious impact on ecosystems and biodiversity through the land use as much as through procurement of raw material and utilization of genetic information. That is a reason why we study the evaluation of land use such as green space managed by enterprises.

Technique to evaluate a fitness degree at a point of view of the biodiversity of the land use is demanded in that study, because quantitative index is necessary for private entities to manage their activities. From such a background, we pay our attention to the land use of business establishment, such as main office and a factory, and to the green space managed and administered by the private entities in particular.

We made a evaluation list of land use to fill in tree classes and area of the green space or that of the surface permeable to water and air, and we started to use it experimentally. However, the business establishments are located in the places with ecologically different conditions. Therefore, we cannot explain the fitness degree of land use only by the evaluation list. So we also carry out research on the methods to monitor and evaluate the environment that employees can participate.

Those methods was studied primarily to estimate ecologically consideration degree of land use. However, the those can be utilized not only in landscape plans as an environmental planning parameter, but can be utilized to monitor and evaluate the environment by employee participation. Finally those actions can lead to adaptive management.