

A Concept for Organizational Decision Support Using Structure Matrix.

T. Sumita, M. Shimazaki,

E-mail: sumita@is.uec.ac.jp URL: <http://www.sumida.is.uec.ac.jp>

Phone: +81-424-43-5665 Facsimile: +81-424-89-1630

Graduate Department of Information Management Science

Graduate School of Information Systems

The University of Electro-Communications

1-5-1 Choufugaoka, Choufu-City, Tokyo 182-8585, Japan

T. Toyama

Management Systems Technology Inc.

The purpose of this paper is to propose a viewpoint that the business would be supported effectively by using structure matrix as a management science methodology.

First of all, the essence of structure matrix will be explained. The distinctive feature of the methodology is to express complicated phenomenon in more easily understandable way without losing their features. The original idea of the methodology was proposed by German scholar Otto Pichler who was stimulated by the early stage of W. Leontief's model. The same idea was reached independently in Japan before the time we heard of German development. Through the process of development in both countries, we got practical progress in modeling of various areas. A few principles of structure matrix will be introduced.

Secondly, the structure matrix will be explained as a useful methodology for organizational decision support. A case for organizational decision support will be introduced from the new business creation in Japan. The resource allocation in the creation of new business is fatally important. Then, we will discuss about how combination of the labor, capital, and technology should be. The process of organizational decision for the resource allocation will be clarified by structure matrix.

Finally, we will reach the conclusion that structure matrix as a management science methodology is useful for organizational decision supports through the discussions.