

# Thinking Style Requirements for Project Managers\*

**Masako Itoh** ([masakoit@tokiwa.ac.jp](mailto:masakoit@tokiwa.ac.jp))

Dept. of Human Science, Tokiwa University  
1-430-1 Miwa, Mito-shi, Ibaraki, 310-8585 Japan

**Takafumi Kawasaki** ([kawas-ta@design.hitachi.co.jp](mailto:kawas-ta@design.hitachi.co.jp))

Design Division, Hitachi Ltd.  
5-2-1 Minami-aoyama, Minato-ku, Tokyo, 107-0062 Japan

**Kenji Hirata** ([affodance@hotmail.com](mailto:affodance@hotmail.com))

Dept. of Sociology, Toyo University  
5-28-20 Hakusan, Bunkyo-ku, Tokyo, 112-8606 Japan

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## Problem

Cognitive approach to practical experts has focused on their tacit knowledge. But our argument is that tacit knowledge is only one of major resources of highly skillful actions. Expert practitioners have to cope with the prescribed multiple tasks as well as unexpected events and troubles which almost daily emerge. They are expected to acquire an useful style of practice to govern multiple tasks. The style must be tuned to the particular job. This study investigated this kind of style of practice that is required for IT project managers by applying *Sternberg-Wagner Self-Assessment Inventory*. The purpose of this study is to find the styles that senior managers of IT business department expects his subordinate project managers practice, the styles that the project managers possess, and the relation between the styles and the effectiveness of those project managers.

## Method

## Participants

17 effective (age: 35-47; the mean job experience: 19 years; the mean project manager experience: 7 years) and 17 less effective (age: 35-45; the mean job experience: 18 years; the mean project manager experience: 6 years) project managers and their eight super-ordinate managers of an IT business department of a leading electronic manufacturer.

## Material and Procedure

*Sternberg-Wagner Self-Assessment Inventor* (Sternberg, 1997) on three functions and four forms were used to make a questionnaire. The questionnaires were given to the project managers through their division's manager and were collected by him. The project managers rated each assessment item on a 1(not at all well) to 7 (extremely well). As for the required thinking styles the super-ordinate managers rated the necessity of the each item on a 1 (very highly required) to 8 (very highly inadequate).

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## Result

Assessments were done based on both Sternberg (1997) and Hiruma (1999). Table 1 shows results of the three functions. Effective project managers showed well-balanced thinking styles in the high middle level. They moderately come up with their own ways of doing things, follow rules, and evaluate rules and procedures. Their style configuration satisfies the requirement of their super-ordinates. Less effective project managers are a little weak in following rules and set procedures.

Table 1: Mean scores and assessments for the function (RQ: required, INA: inadequate)

	effective	less effective	RQ/INA
Legislative	5.3 (HM)	5.4 (HM)	6.2 (MR)
Executive	4.1 (HM)	3.8 (LM)	6.3 (MR)
Judicial	4.7 (HM)	4.8 (HM)	5.5 (SR)

(HM: high middle, LM: low middle; MR: moderately required, SR: slightly required)

Table 2 shows results of the four forms. Both effective and less effective project managers showed similar thinking styles. They recognize the need to set priorities and view problems from a number of angles so as to set priorities correctly. Both groups satisfy the requirements.

Table 2: Mean scores and assessments for the forms

	effective	less effective	RQ/INA
Monarchic	3.5 (VL)	3.7 (L)	3.0 (MI)
Hierarchic	5.3 (VH)	5.2 (VH)	6.8 (MR)
Oligarchic	3.2 (LM)	3.3 (LM)	5.3 (SR)
Anarchic	3.4 (L)	3.0 (VL)	4.0 (SI)

(VL: very low, H: high, L: low; MI: moderately inadequate, SI: slightly inadequate)

## References

Hiruma, F. (1999). Assessing Japanese college students' thinking styles. APS 11<sup>th</sup> annual convention, Denver  
Sternberg, R. J. (1997). *Thinking styles*. Cambridge University Press.