## Episode 5 The relationship between PMD, Steplist, FBS, and 3-5 Phase Improvement

Using Fig. 1, let us explain the relationship.

- 1. The Key Word of PMD is the functional expression of the desired result (in brief "do something").
- 2. The name of the subject or theme level which realizes the functional expression is the uppermost theme name of the FBS. In the previous FBS example, it was "a desk for easy study." If we move from the basic functional expression (Key Word) to the name of the subject of a higher level theme, we may also wonder whether it is enough for the function of "a desk for easy study" to be restricted to the Key Word only. Then we are led to an exact expression of the function and images of a desk for easy study. Fixed as nouns or noun phrases, they constitute the "exemplary theme expressions" of the FBS.
- 3. When constructing the Steplist, the first thing to do is to put the noun expression of the desired result into column 7D. We may then create the procedures to realize the desired result by filling in elements from the upstream in these columns. This is how a procedure is created from PMD.
- 4. The relationship between a PMD, a Steplist, and FBS is as above, but when considering whether it is enough for the function of "a desk for easy study" to be restricted to the Key Word only, additional images may arise. In this case, we apply the 3-5 Phase Improvement Method. That is, we classify the images as "immediately realizable and effective," "pressing but preparation is necessary," or "to consider for future realization phase-wise," add them to the appropriate columns, and take steps to materialize them.

Structure of Structure of Structure of image/idea **FBS Steplist** PMD | value or the procedure direction of value Subject/Theme Theme B C D E In order to Theme Name Noun formed objective result How to do Theme level I : (WBS LEVEL I) The most appropriate expression of objective result MAIN KEY WORD (Expression of Expression of MAIN KEY WORD basic function objective result) Plan A OR Plan B OR Plan C (KEY WORD) Things name which Comparative want to have ideas as output go to 7D box of Steplist **ENTRANCE KEY** Same 3-5 Phase Improvement Parallel improvement PHASE-0 Implementation plan and development  ${\tt GO-A-IIEAD}$ Phase I Countermeasure

• Effective Measure can be taken
at once Inductive and  ${f deductive}$  Temporary measure upto
Phase II Countermeasure approaches by Steplist Phase II Countermeasure procedure · Immediate countermeasures but some preparation Phase III Countermeasure · Final countermeasure which can be realized by using present knowledge or technology

Episode 5, Fig.1 The relationship of PMD Steplist, FBS, 3-5 Improvement