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SUCCESS FACTOR ANALYSIS OF THE REGIONAL INNOVATION-SUPPORTING FACILITIES IN KOREA

Abstract:

Korean government has established innovation-supporting facilities in the outside of national capital region. The so-called "Regional R&D Centers" are equipped with R&D equipment and aim to support R&D activities of the small and medium sized enterprises in the nearby regional industry cluster. Since 2006, more than 582 facilities have been established using more than 10 billion USD. However, there are many debates on the efficacy of the regional R&D centers. In this study, we analyzed the success factors of the selected regional R&D centers using DEA and tobit regression. To measure the efficiency of the regional R&D centers using DEA, we selected budget invested, man-power and operation duration as the input variables and the number companies who utilized the facilities, number of utilization and awareness among the cluster as the output variables. The results showed that the efficiency of the regional R&D centers depends on the types of the host institute of the regional R&D center. We tested the relationship between the efficiency measured by DEA and factors in the planning and operation stages of the centers and environmental factors like GRDP. The tobit analysis showed that the number of partner institutes has strong positive influence to the efficiency in all the efficiency models. The location and support of operational expenses also showed positive influence in some models. The policy implication as well as detailed analysis procedure and results will be discussed in the presentation.

Keywords:

regional innovation-supporting facility, DEA, tobit regression, success factor analysis