A study on selecting the frontier group as R&D budget allocation by the data envelopment analysis

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Korean goverment are forced to produce an excellent R&D outputs in the R&D sector. Specifically, Korea research council of public science & technology (KORP) has been planning to drive an excellent R&D results within 5 years from the mid-term viewpoints. as one of research institute affiliated to KORP, KIER drives 3 national agenda programs such as hydrogen fuel cell technology, synthetic oil production technology, and wind power technology.

In this study, we suggest for scientific decision procedure to select the frontier group as we invest R&D budget efficiently and produce outstanding R&D results strategically. We screen 3 national agenda programs as frontier by the data envelopment analysis. We also make criteria for evaluating them. this research result can supply decision maker or energy policy makers to fundamental data as they make a decision related to national agenda progrms.