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Technical efficiency and environmental factors of the micro, small, and medium enterprises in Bandung city: A slack-based approach (Article)

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Abstract

This research investigates the technical efficiency of the micro, small, and medium enterprises (SMEs) in Bandung city as well as investigating the effect of environmental factors on the technical efficiency. The competition and the size of the SMEs are used to measure the environmental factors. This research uses field survey data collected from SMEs operating in Bandung city. Three-stage approach is used in this research. At the first stage, this research applies the data envelopment analysis (DEA) to estimate technical efficiency. At the second stage, this research employs the slack-based approach to estimate the effect of environmental factors on the technical efficiency. At the last stage, the technical efficiency is estimated using the DEA with the adjusted inputs derived from the second stage. This research finds that a significant improvement of the technical efficiency occurs after taking into account the competition and the size of the SMEs. This research also reveals that competition only affects significantly the capital slack. Further, the size of the SMEs affects significantly the slacks of all input variables. Copyright © 2016 Inderscience Enterprises Ltd.

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Scope The goal of the IJGSB is to explore the opportunities and threats of globalisation for small businesses as well as small businesses' strategic options in an increasingly global world. Dramatic changes in contemporary society and the economy have impacts on small businesses. The changing environment negatively influences the development and survival of smaller organisations in some areas and creates new opportunities for small businesses in others. Small firms' managers increasingly have to cope with global as well as local competitive dimensions. Research in this broad field thus is highly relevant.

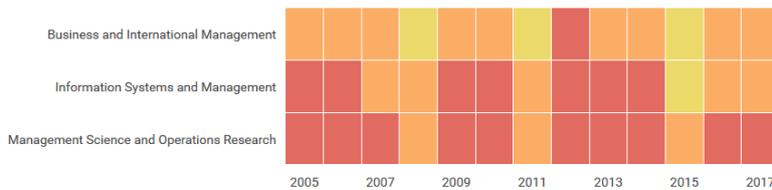


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Technical efficiency and environmental factors of the micro, small, and medium enterprises in Bandung city: a slack-based approach

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Abstract: This research investigates the technical efficiency of the micro, small, and medium enterprises (SMEs) in Bandung city as well as investigating the effect of environmental factors on the technical efficiency. The competition and the size of the SMEs are used to measure the environmental factors. This research uses field survey data collected from SMEs operating in Bandung city. Three-stage approach is used in this research. At the first stage, this research applies the data envelopment analysis (DEA) to estimate technical efficiency. At the second stage, this research employs the slack-based approach to estimate the effect of environmental factors on the technical efficiency. At the last stage, the technical efficiency is estimated using the DEA with the adjusted inputs derived from the second stage. This research finds that a significant improvement of the technical efficiency occurs after taking into account the competition and the size of the SMEs. This research also reveals that competition only affects significantly the capital slack. Further, the size of the SMEs affects significantly the slacks of all input variables.

Keywords: environmental factors; micro, small, and medium enterprises; slack-based approach; technical efficiency.

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