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Can a larger market foster R&D under monopolistic competition with variable mark-ups?[☆]

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Abstract

We study monopolistic competition with symmetric directly additive preferences (generating variable mark-ups) and an endogenous technology choice. Each firm chooses an investment in R&D to decrease its marginal cost. We prove that the equilibrium R&D investment *increases with market size* (a larger population or trade) only if the price-elasticity of demand is an increasing function. Together with the output levels, such equilibrium investments may be *socially excessive or insufficient*, depending on whether the elasticity of the subutility is increasing or decreasing. The main implication is that opening up to free trade can foster R&D through variable mark-ups.

Keywords: R&D investments; trade and efficiency; monopolistic competition; variable mark-ups; trade gains.

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