Accepted Manuscript

Title: Incremental innovation and competitive pressure in the presence of discrete innovation

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PII: DOI: Reference:	S0167-2681(16)30321-3 http://dx.doi.org/doi:10.1016/j.jebo.2016.12.022 JEBO 3952		
To appear in:	Journal of Economic Behavior & Org	anization	
Received date:	5-10-2015		

Received date:	5-10-2015
Revised date:	28-11-2016
Accepted date:	31-12-2016

Please cite this article as: Arghya Ghosh, Takao Kato, Hodaka Morita, Incremental innovation and competitive pressure in the presence of discrete innovation, <*!*[*CDATA*[*Journal of Economic Behavior and Organization*]]> (2017), http://dx.doi.org/10.1016/j.jebo.2016.12.022

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ACCEPTED MANUSCRIPT

Incremental innovation and competitive pressure in the presence of discrete innovation

Arghya Ghosh, Takao Kato, and Hodaka Morita*

November 2016

Abstract

Technical progress consists of improvements made upon the existing technology (*incremental innovation*) and innovative activities aiming at entirely new technology (*discrete innovation*). Incremental innovation is often of limited relevance to the new technology invented by successful discrete innovation. Previous theoretical studies have indicated that higher competitive pressure measured by product substitutability increases incremental innovation. In contrast, we find that intensified competition can decrease incremental innovation. A firm's market share upon its failure in discrete innovation decreases as competition intensifies. This effect decreases firms' incentives for incremental innovation because the innovation outcome can be applied to a smaller amount of units.

Keywords: Competitive pressure, incremental innovation, discrete innovation, location model, product substitutability, technical progress.

JEL classification numbers: L10, L60, M50, O30

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^{*} We wish to thank the Co-Editor (Thomas Gresik), an anonymous Associate Editor, two anonymous reviewers, Richard Arnott, Lorne Carmichael, Jean-Etienne de Bettignies, Malgorzata Knauff, Hideo Owan, Michael Raith, Michael Waldman, and seminar participants at Colgate University, Hitotsubashi University, University of Queensland, UNSW, University of Tokyo, University of Western Australia, Waseda University, 7th International Industrial Organization Conference, and 2008 Japan Economic Association Conference for valuable comments and discussions, and Tomohiro Ara, Jonathan Lim and Cheng-Tao Tang for excellent research assistance. Special thanks go to all the interviewees who generously gave up their time to answer our questions.

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