

Dietmar Harhoff*
R&D SPILLOVERS, TECHNOLOGICAL AND PRODUCTIVITY GROWTH – EVIDENCE FROM GERMAN PANEL DATA

ABSTRACT

This paper studies the effect of R&D spillovers on R&D spending and productivity of German manufacturing firms. Using panel estimation techniques, we estimate that spillovers affect industries in a heterogeneous manner. In high-technology sectors, firms appear to react positively and more strongly than firms in other industries. Experiments with alternative spillover assumptions suggest that the effect is not due to racing phenomena. Moreover, in high-technology industries spillovers have a productivity-enhancing effect in addition to the direct effect. The effect is conditioned by the firm's own R&D activity. Consistent with the hypothesis of absorptive capacity, high R&D capital stocks appear to moderate the effect of external R&D.

Innovation, Entrepreneurship und Demographie

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1. Einleitung

Über Innovation wird seit einiger Zeit in der Wirtschaftspolitik viel gesprochen. Naturgemäß wird in der Wirtschaftswissenschaften Verwendung nicht immer präzise definiert. In den letzten Jahren hat die Diskussion über die Frage gestellt, ob diese Inflation auch Feuilletonisten auf den Plan gerufen. So wird in der Süddeutschen Zeitung die Frage gestellt, ob im Kern erkapit...

The Duration of Patent Examination at the European Patent Office

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Managing User Communities and Hybrid Innovation Processes: Concepts and Design Implications

DIETMAR HARHOFF

PHILIP MAYRHOFFER

Over the last twenty years, an intriguing set of innovation studies has focused on the role of user communities in innovation processes. Starting with Eric von Hippo's (1994) observation that major innovations often come from users rather than manufacturers, the literature has been reframed. Moreover, with the advent of user communities, more and more innovation processes have been numerically empowered to contribute and influence innovation processes. In which way can we describe as one of the main design implications...

...of patent examination at the European Patent Office utilizing a sample of 215,265 applications filed between 1982 and 1999. We identify three groups of determinants: applicant characteristics, and characteristics of the examination task. The complexity of the claims affects the time to grant. Controversial claims lead to slower grants but also to more approved faster and withdrawn more slowly. The time to grant for their most valuable patents, but that the time to grant for their most valuable patents is implicit. This paper develops implications for patent examination and innovation management. The analysis: patent citations; European Patent Office. June 30, 2009, by Christoph Loch, R&D and product development. *Advances in Innovation* September 28, 2009.

From a firm's perspective, the exact duration of patent examination is crucial to determine whether a patent is granted in time to be commercialized.

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PROGRAMM

Musikalische Eröffnung

Christoph Spengler (Klavier) und Andrea Keden (Gesang):

- Gustav Mahler: „Frühlingsmorgen“
- Richard Wagner: „Der Engel“

Eröffnung

Prof. Dr. Michael J. Fallgatter (Dekan der Schumpeter School)

Grußworte

- Prof. Dr. Lambert T. Koch (Rektor der Bergischen Universität)
- Peter Knitsch (Staatssekretär im Ministerium für Klimaschutz, Umwelt, Landwirtschaft, Natur- und Verbraucherschutz des Landes Nordrhein-Westfalen)
- Prof. Dr. Norbert Koubek (Sprecher des Vorstandes der Schumpeter School Stiftung)

Musikalisches Zwischenspiel

Christoph Spengler (Klavier): Michael Schütz: „Salsa Creek“

Laudatio

Prof. Dr. Peter Witt (Lehrstuhl für Technologie- und Innovationsmanagement der Schumpeter School)

Preisübergabe

Festvortrag des Preisträgers

Prof. Dietmar Harhoff, Ph.D.

Musikalischer Ausklang

Christoph Spengler (Klavier) und Andrea Keden (Gesang):

- Leonard Bernstein: „I hate music!“
- George Gershwin: „Summertime“

Empfang mit Buffet

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