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# Managing Know-How

by Deishin Lee and Eric J. Van den Steen

## **Abstract**

We study how firms can use a knowledge management system to optimally leverage employee-generated know-how. In particular, we consider the following practical strategic questions for the manager of a knowledge-intensive firm: should her firm develop a formal knowledge system? And if so, how should it be managed, particularly in terms of what information to record? We find that firms benefit more from a knowledge system when they are larger, face the same issues more frequently, have higher turnover, and face problems about which there is less general knowledge. In terms of what information to record, a key insight is that recording moderately successful practices can be counter-productive, since doing so may inefficiently reduce employees' incentives to experiment. This "strong-form competency trap" forces firms into an exploration-exploitation trade-off. Firms that value a knowledge system most should also be most selective in recording information. We further find that recording successes is more valuable than recording failures, which supports firms' focus on best practice. Beyond these main principles, we also show that it may be optimal to disseminate knowhow on a plant-level but not on a firm-level, and that recording back-up solutions is most valuable at medium levels of environmental change.

**Keywords:** Change; Employees; Information; Knowledge Management; Outcome or Result; Practice; Problems and Challenges; Motivation and Incentives; System; Value;

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#### About the Author



Eric J. Van den Steen
Royal Little Professor of Business Administration
Strategy

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