

Chapter 6.16

Transforming Small Businesses into Intelligent Enterprises through Knowledge Management

Nory B. Jones

University of Maine Business School, USA

Jatinder N. D. Gupta

University of Alabama in Huntsville, USA

ABSTRACT

As small businesses struggle to survive in the face of intense competitive pressures, an emerging strategy to help them involves using knowledge management tactics to harness their intellectual capital and improve their sustainable competitive advantage. This chapter discusses the issues involved with the transformation of small businesses into intelligent enterprises via knowledge management tools and strategies. However, because a “build it and they will come” approach usually leads to failed initiatives, this chapter further addresses the issues of how small businesses can

successfully incorporate adoption and diffusion theories to help them effectively transform themselves into successful learning organizations or intelligent enterprises. Finally, a case study from one small business is presented to validate some of the theories.

INTRODUCTION

In the last decade, the importance of knowledge as a source of sustainable competitive advantage has gained widespread acceptance. Business practitioners and academics alike recognize that

what is “between the ears” (Tiwana, 2000) of their employees represents the source of creativity and innovation that nourishes and sustains the organization. Furthermore, the ability to harness the intellectual capital in an organization probably represents the most important aspect relating to the creation of an intelligent enterprise.

However, most research on the topic of knowledge management (KM) and intellectual capital has focused on larger organizations. Because small businesses account for a major portion of the total number of businesses, jobs, and growth in many world economies (Wong & Radcliff, 2000), we need to understand the impact of knowledge management on small businesses as well. We need to understand the correlation between knowledge management practices, the ability of a small business to transform itself into an intelligent enterprise and any resulting performance or competitive improvements KM may provide.

The fact that small businesses impact world economies is well documented. In the United States, The U.S. Small Business Administration’s “Small Business Economic Indicators for 1999 (2001) states, “Small businesses continued to employ more workers than large companies; they employed 68.2 million people in 1999 or 58% of the private-sector workforce.” In Australia, there are about 951,000 small businesses in the private nonagricultural sector, employing 3.1 million people (Shaper & Raar, 2001). Kollé (2001) similarly states, “SMEs are the backbone of what makes Hong Kong special in world trade.” Small and medium sized enterprises (SMEs) similarly account for a large percent of businesses and are responsible for the net job creation in many economies (Wong & Radcliffe, 2000).

However, the failure rate for small businesses is staggering. According to Dun & Bradstreet reports, “Businesses with fewer than 20 employees have only a 37% chance of surviving four years (of business) and only a 9% chance of surviving 10 years” (Holland, 1998). Why are small businesses so susceptible to failure? According to Wong

& Radcliffe (2000), “SMEs must contend with challenges that are not as pressing in large organizations. First, they are susceptible to ‘resource poverty’ in technology and recruitment. They are also susceptible to external forces such as competition and changes in government regulations. They often have limited access to capital and money markets and sometimes are forced to make critical decisions without the aid of internal specialists.” In addition, if knowledge is concentrated in a few key employees, the company becomes vulnerable to resource deprivation if these people leave and take their valuable knowledge with them.

Because a “build it and they will come” approach to knowledge management usually does not work, this chapter also discusses and integrates the concepts of adoption and diffusion of innovations with knowledge management theories to help transform a small business into an intelligent enterprise. It does so by presenting the results from the study of one small business. The ultimate goal of this chapter is to provide small businesses with some consistent theories and practices that may help improve their competitiveness in a turbulent world.

The rest of the chapter is organized as follows. First, the role and importance of knowledge management in a small business to create an intelligent enterprise is discussed. This discussion includes the ways a small business can enhance the adoption and diffusion of knowledge management systems to facilitate competitive advantage. Second, existing research on relationships between knowledge management and a sustainable competitive advantage in small businesses is examined to identify some challenges inherent in the process of developing successful knowledge management systems. A case study is then presented to substantiate or refute the offered theories in the context of a small business. This case study is also used to understand the process required to obtain sustained performance improvements in a small business and to transform it into an intelligent enterprise. Finally, the chapter concludes with a

10 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/transforming-small-businesses-into-intelligent/25291

Related Content

Beyond SOA and REST for Distributed Application Integration

José Carlos Martins Delgado (2018). *Innovative Applications of Knowledge Discovery and Information Resources Management* (pp. 228-257).

www.irma-international.org/chapter/beyond-soa-and-rest-for-distributed-application-integration/205408

Examining the Relevance of Intellectual Capital in Improving the Entrepreneurial Propensity Among Indians

Ahmed Musa Khan, Mohd Yasir Arafat, Mohd Anas Raushan and Imran Saleem (2020). *International Journal of Knowledge Management* (pp. 123-140).

www.irma-international.org/article/examining-the-relevance-of-intellectual-capital-in-improving-the-entrepreneurial-propensity-among-indians/243641

Using Blockchain to Ensure Supply Chain Traceability

Pedro Azevedo, Jorge Vareda Gomes and Mario Romão (2023). *Effective AI, Blockchain, and E-Governance Applications for Knowledge Discovery and Management* (pp. 268-288).

www.irma-international.org/chapter/using-blockchain-to-ensure-supply-chain-traceability/331241

From Personal Knowledge Management to Corporate Knowledge Management

Aye Asl Sezgin and Esengül plik (2018). *Social Media for Knowledge Management Applications in Modern Organizations* (pp. 169-189).

www.irma-international.org/chapter/from-personal-knowledge-management-to-corporate-knowledge-management/185903

Essentials for Developing a Prosperous Knowledge City

Rabee M. Reffat (2010). *Knowledge-Based Development for Cities and Societies: Integrated Multi-Level Approaches* (pp. 118-130).

www.irma-international.org/chapter/essentials-developing-prosperous-knowledge-city/41688