

Chapter 43

Intellectual Capital

H.Y. Sonya Hsu

Southern Illinois University, USA

Peter P. Mykytyn Jr.

Southern Illinois University, USA

Category: Organizational Aspects of Knowledge Management

INTRODUCTION

Today's economy is characterized by a rapid rate of change, globalization, and knowledge-intensive products. This makes knowledge management (KM) vital to organizations. The resource-based view of the firm postulates that a firm's profitability is not only a function of its market and competitive position but also a function of its internal capabilities and know-how in combining its resources to deliver products and services and to enhance organizational performance (Alavi, 2000).

The goal of an effective KM strategy should be to enhance the creation, transfer, and utilization of all types of organizational knowledge (Alavi, 2000). Corporations not only realize that knowledge is the critical resource but also try to manage organizational knowledge more intensely and effectively. For example, Stewart (1997) defined intellectual capital (IC) as the intellectual material—knowledge, information, intellectual

property, and experience—that can be put to use for creating wealth.

Several researchers (Bontis, 1996, 2001, 2002a, 2002b; Van Buren, 1999; Mykytyn, Bordoloi, Mckinney, & Bandyopadhyay, 2002; Pike, Rylander, & Roos, 2002) identified the importance of intellectual capital (IC) with Bontis (2002a) indicating that human capital is a major component of IC. Human capital, as well as other components of IC (e.g., innovation capital) is an integral part of knowledge in KM research (Bontis, 2001, 2002a, 2002b; Van Buren, 1999; Pike et al., 2002).

Finally, it does the organization little good if effective KM does not lead to success. This success can be defined as how well an organization engages in KM to innovate and reduce uncertainty. Ultimately, an organization should hope to achieve a competitive advantage.

While there is no clear division between KM and IC, there is an intuitive link between them. Numerous researchers have investigated knowledge components, KM issues, and success achievement in organizations. However, none has included IC components into an integrated

research framework. This article presents such a framework.

BACKGROUND

According to Barney (2002), firm resources are “all assets, capabilities, competencies, organizational processes, firm attributes, information, and knowledge that are controlled by a firm” (p. 155). These resources enable the firm to implement strategies that increase its effectiveness and efficiency. Most importantly, the resource-based view of the firm focuses the idiosyncratic, costly to duplicate resources that may give the firm a competitive advantage, such as highly skilled and creative workers, effective managers, and institutional leaders. Barney (2002) further defines these too-costly-to-copy resources as “resource immobility.”

Dierickx and Cool (1989) point out that firm resources can be divided into tradable (i.e., unskilled labor, raw materials, and common intellectual property) and nontradable (i.e., firm-specific skills/capabilities, quality reputations, partners royalty, R&D capability, brand loyalty, and customer trust). Whereas tradable resources are mobile and can be acquired easily, the nontradable resources are immobile and must be developed, accumulated, and maintained through time (Hunt, 2000).

“Immobility” in this article differs slightly from Barney’s definition. The argument is established by the “how” and “what” to produce those too-costly-to-copy resources. For example, a top management of Toyota can move to Ford but cannot perform at the same scale as in Toyota because of different organizational capabilities, structures, dynamics, processes, and culture. The immobile resources are those that cannot be physically moved from one firm to the others regardless of whether they are copied or stolen. This article attempts to distinguish between mobile and immobile assets, and perhaps establish the argument on increasing the value of mobile

assets by the facilitation of immobile assets.

In the spirit of Barney (1991, 1997, 2002), a firm’s resources were defined as “capitals.” As such, the firm’s resources can be divided into financial capital, physical capital, human capital, and organizational capital (Barney, 1991, 1997, 2002). Financial capital includes all money resources. Physical capital is physical technology in a firm. Human capital refers to the training, experience, judgment, intelligence, relationships, and insight of individuals. Organizational capital includes a firm’s formal reporting structure; formal and informal planning, controlling, and coordinating systems; its culture and reputation, and its informal relations among groups within firm, between firms and those in its environment (Barney, 2002, p. 156).

Bontis (2002a) defined similar concepts, referring to them as human capital, structure capital, and customer capital. Van Buren (1999), however, replaces Stewart’s “structure capital” with two new measures: innovation capital and process capital. Innovation capital is the capability of an organization to innovate and to create new products and services, and process capital represents an organization’s processes, techniques, systems, and tools.

Among three definitions of IC, Stewart (1997), Van Buren (1999), and Bontis (2002) all include human capital. Customer capital is the relationship between firms and their customers. Pike et al. (2002) referred to customer capital as relational capital; however, customer capital and relational capital are defined similarly. Structure/process capital by Bontis (2002), innovation/process capital by Van Buren (1999), or organizational capital by Pike et al. (2002) are the most controversial components of IC. Those definitions are titled differently, but they are overlapped in terms of the categories of IC.

Quite controversially, the evaluation of IC also inherits split directions. One direction includes accounting cost base and financial value base.

8 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/intellectual-capital/48994

Related Content

Are ICT Non-Users Absolute Non-Users?: Segregation of "Potential ICT Users" From the Non-Users' Profile

Nimmy Maria Josephand P. E. Thomas (2021). *Ubiquitous Technologies for Human Development and Knowledge Management* (pp. 225-242).

www.irma-international.org/chapter/are-ict-non-users-absolute-non-users/274957

Perceived Innovative Teaching Procedures in Higher Education From Students' Perspectives From a Sentiment Analysis Approach

Ernesto D'Avanzo, Miltiadis Demetrios Lytras, Jose Picatoste, Isabel Novo-Cortiand Paola Adinolfi (2018). *Enhancing Knowledge Discovery and Innovation in the Digital Era* (pp. 126-147).

www.irma-international.org/chapter/perceived-innovative-teaching-procedures-in-higher-education-from-students-perspectives-from-a-sentiment-analysis-approach/196508

Interdepartmental Knowledge Transfer Success During Information Technology Projects

Kevin Laframboise, Anne-Marie Croteau, Anne Beaudryand Mantas Manovas (2007). *International Journal of Knowledge Management* (pp. 47-67).

www.irma-international.org/article/interdepartmental-knowledge-transfer-success-during/2701

Evaluation of Entrepreneurship Education Course Effect and Personalized Learning Path Using CART Decision Tree

Jian Li (2025). *International Journal of Knowledge Management* (pp. 1-22).

www.irma-international.org/article/evaluation-of-entrepreneurship-education-course-effect-and-personalized-learning-path-using-cart-decision-tree/385732

Does the Location in a Science and Technology Park Influence University - Industry Relationships?: Evidence From a Peripheral Region

Madelon van Oostrom, José Antonio Pedraza-Rodríguezand Manuel Fernández-Esquinas (2019). *International Journal of Knowledge Management* (pp. 66-82).

www.irma-international.org/article/does-the-location-in-a-science-and-technology-park-influence-university---industry-relationships/234379