INTRODUCTION

Future scenarios of organizations envision companies that are organized around a central knowledge base in the form of a network. It is assumed that each company contributes its own expertise and intellectual capital to the network’s knowledge base. This article discusses the use of open content distribution management systems (OCDMSs) in knowledge-intensive fields, such as content production and software development, in order to ensure seamless and open collaboration between the firms in the organization.

OCDMSs offer participants several advantages. For instance, such systems can be seen as a way of enhancing the competitiveness of small and micro-sized knowledge-based firms by ensuring that each firm receives fair compensation for the content it develops. OCDMSs are revolutionary in the sense that they allow participants to contribute content to a common resource pool and add all the required metadata to the content. A common information pool where information is shared with well-defined rules lowers transaction costs between participating organizations. This article looks at one open content distribution management system that was developed in a university-industry research project and is being further developed by a company that is a spin-off company from the project.

BACKGROUND

Virtual Organizations

Developments in information technology as well as new organizational concepts have led to the
emergence of new types of organizations. Miles, Miles, and Snow (2004), Miles and Snow (1995), and Miles, Snow, and Miles (2000) have discussed network organizations that rely on collaboration between independent units. The term virtual organization has become ever more commonplace in organizational literature. Walters (2004) discusses the business model of the virtual or holonic organization and refers to McHugh, Merli, and Wheeler (1995) in listing the following properties of a virtual organization.

• The organization consists of businesses of equal standing; that is, there is no hierarchy between the individual businesses in a virtual organization.
• Information can be accessed and exchanged freely throughout the organization and across its boundaries; that is, the organization is open.
• The organization is evolutionary and is involved in constant interaction with its environment.

One interesting form of virtual organizing is the virtual web, defined by Franke (1999) as “the base of virtual corporations” (p. 211). According to Franke, a virtual web belongs to the typology of dynamic networks, as defined by Miles and Snow (1986), which has the following characteristics.

1. **Vertical Disaggregation:** Different organizations in the network perform separate functions that have been performed by functional units in a traditional organization.
2. **Brokers:** Brokers bring together the necessary functions available in the organization and play a leading role in building business units and subcontracting for needed services. Brokers can operate at different levels of a dynamic network and, thereby, have varying degrees of responsibility.
3. **Market Mechanisms:** These hold the network together and regulate its functioning. Competition is promoted amongst the members of the network and also with external companies, and this regulates the internal prices of the services available in the network.
4. **Full-Disclosure Information Systems:** Companies wishing to become a part of the network, even for a fixed-term project, are expected to connect their information systems to the network’s continuously updated information system via broadband access in return for a general payment structure for the value they add to the network. The purpose of this, according to Miles and Snow (1986), is to facilitate the rapid and mutual assessment of contributions and to speed up the trust-building process.

According to Franke (1999), virtual corporations are involved in temporary partnerships established by brokers in a virtual web in order to bring together the necessary combination of skills and resources. In order for a virtual web to successfully generate virtual corporations, the web must offer an environment that encourages the member companies to participate in virtual corporations without compromising confidentiality and intellectual property rights, while, at the same time, preserving the dynamic and flexible properties of the virtual corporation.

**Virtual Communities**

Lee, Vodel, and Limayem (2003) have analysed various definitions of virtual communities and have identified four elements that they found common to most definitions. First, a virtual community should exist in cyberspace; that is, the members of a virtual community use computer-mediated spaces in order to interact. Second, the activities of a virtual community are supported by computer-based technologies, such as e-mail, message boards, and chat. Third, the main focus and content of virtual communities are participant driven, and the content of such communities is
Related Content

Expanding Our View of Information Systems Success
[www.igi-global.com/chapter/expanding-our-view-information-systems/23434?camid=4v1a](www.igi-global.com/chapter/expanding-our-view-information-systems/23434?camid=4v1a)

Decision Making and Support Tools for Design of Machining Systems
[www.igi-global.com/chapter/decision-making-support-tools-design/36713?camid=4v1a](www.igi-global.com/chapter/decision-making-support-tools-design/36713?camid=4v1a)

Approaches to Strategy Development
[www.igi-global.com/chapter/approaches-strategy-development/70903?camid=4v1a](www.igi-global.com/chapter/approaches-strategy-development/70903?camid=4v1a)

Alignment through Cross-Functional Integration
[www.igi-global.com/chapter/alignment-through-cross-functional-integration/29760?camid=4v1a](www.igi-global.com/chapter/alignment-through-cross-functional-integration/29760?camid=4v1a)