Chapter 6.3
Management of a Virtual Construction Management Services Company

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NETWORKING AND VIRTUAL COMPANIES IN GENERAL

Networking is the organizational form of the information age. Network organizations signify a form of collaboration designed to facilitate economic exchange and to provide an environment for interaction between people (social exchange). Economic actors are likely to sacrifice some of their own preferences in the pursuit of collective goals (Fleisch & Österle, 2000; Franke, 2001). Network organizations are characterized by (1) a purpose and shared goals unifying members, (2) independent members benefiting from being part of a whole, (3) voluntary links between members, (4) multiple leaders providing greater resilience, and (5) many levels integrating organizations, units, and people. From an intra-organizational perspective, networks are the collections of individuals and sub-units within one and the same organizational boundaries. From an inter-organizational perspective, networks are the collections of more or less independent individual economic actors such as, companies, institutions, and research organizations (Franke, 2001). Three network types involve (1) internal networks as the loose associations of autonomous groups and teams, (2) stable networks where focal firms engage in long-term relationships with external suppliers or partners, and (3) dynamic networks as the temporary alliances of independent firms with key skills usually organized around a leading or brokering firm based on the exploitation of market opportunities.

Virtual companies (VC) resemble dynamic networks that facilitate the discovery and configura-
tion of core competencies in value chains that, in theory, result in optimal value creation processes. VCs are considered purposeful systems that are composed of sets of interrelated elements, that is, actors, resources, and activities (Saabeel et al., 2002). They have the abilities to alter value creation processes (Franke, 2001) through a concept of switching (Mowshowitz, 1999). The essence of VCs is the meta-management of goal-oriented activity. Virtual companies are characterized by four structural dimensions (Bauer & Köszegi, 2003): (1) through differentiation (modularity and heterogeneity), a variety of satisfiers or modules tend to develop a VC’s core competence to meet a specific requirement optimally. A flexible and dynamic combination of core competencies into unique value chains gives companies an opportunity to achieve competitive advantages by increasing their resources and know-how virtually; (2) through configuration (temporary and loose coupling), the overall structure and network of a VC is determined to meet changing customer requirements. The main pre-requisite for flexibility involves structural and cultural relations between network partners and the loose integration of collaborators, that is, the market-based mechanisms of integration are required for VCs; (3) through integration (trust as a coordination mechanism) in a trust-based systems, the behavior of a VC is guided by shared norms and values. Control output or behavior is replaced by self-control. Therefore, trust is considered as an efficient mechanism to coordinate exchange relations that are characterized by high uncertainty and interdependence between transaction partners; (4) through technology, the distributed nature of a VC requires integration at the social and technical levels. ICT is considered an enabler to guarantee the efficient coordination of activities along the value adding process in question.

MODELS ENABLING CONSTRUCTION MANAGEMENT (CM) SERVICES

The general construction management (CM) context involves individual practitioners who are needed to perform various CM services for owners (clients) of buildings. A vast range of expertise required for performing all CM services and the demand for timely CM performance on projects preclude the performance of the complete CM services by an individual firm, except on the simplest projects (Haltenhoff, 1999). The organizational make-up of a CM company is unique in the building industry. CM practice has substantiated the fact that CM companies must be multi-discipline organizations. Owners agree with qualified CM companies to provide construction leadership as well as perform management and administration within a defined scope of services. A construction manager works throughout all the phases of a project (programming, building design, procurement, and construction works) and cooperates also with designers in furthering the interests of the owner in question.

In all kinds of economies, the building sector context deals with the design, financing, implementation, services, and life-cycle aspects of investments in both new buildings and the renovation of the existing building stock. Buildings serve public and private sectors. There are residential and non-residential buildings. Further, the latter include commercial, industrial, office, and public buildings.

In the exemplary context of building in Finland, this market witnessed a deep recession in the early 1990s which led to the emergence of both new CM-for-fee consultants and CM-at-risk contractors with their streamlined organizations. Large building investments were increasingly implemented under many forms of CM contracts (Kiiras et al., 2002). Today, major clients are satisfied as the reliance of CM contracts allows them to make decisions in more flexible ways and
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