Exploring the Role of Communities of Practice in Regional Innovation Systems

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INTRODUCTION

In the past two decades, the related concepts of regional innovation systems and clusters have become widely circulated in both academic and policy circles. Both concepts depart from the idea that innovations predominantly occur as a result of interactions between various actors, rather than as a result of a solitary genius (Håkansson, 1987; von Hippel, 1988; Lundvall, 1992), and that innovation and industrial transformation result from interactions across sets of actors within a spatially defined territory (e.g., countries, regions). Researchers within this field posit that most innovations are based on some form of problem solving in which someone generally perceives a problem and turns to someone else for help and advice (Teigland, Lindqvist, Malmberg & Waxell, 2004), and that spatial proximity seems to enhance the processes of interactive learning and innovation (Malmberg & Maskell, 2002). These assumptions draw striking parallels to the traditional concept of communities of practice (Brown & Duguid, 1991; Orr, 1990; Wenger, 1998), which are emergent groups of people who know each other relatively intimately and who primarily work together directly in face-to-face situations since learning and knowledge are situated within a physical setting (Teigland, 2003). Thus, the purpose of this short article is to provide a brief discussion of clusters and regional innovation systems, and propose broad areas of future research in which the community of practice concept can contribute to our understanding of clusters and regional innovation systems.

BACKGROUND

While no one universal definition exists, one definition of a cluster is a spatial agglomeration of similar and related economic and knowledge-creating activities (Waxell, 2005). Regional innovation systems are networks of organizations, institutions, and individuals within which the creation, dissemination, and exploitation of new knowledge and innovations occurs (Cooke, Heidenreich & Braczyk, 2004). The link between clusters and regional innovation systems is that within these spatial systems, groups of similar and related firms (e.g., large and small firms, suppliers, service providers, customers, rivals, etc.) comprise the core of the cluster, while academic and research organizations, policy institutions, government authorities, financial actors, and various institutions for collaboration and networks make up the innovation system of which the cluster is a part (Teigland et al., 2004).

Cluster and regional innovation system researchers argue that interactive learning and innovation processes are not space-less or global, but on the contrary, geographical space plays an active role in these processes. Spatial proximity carries with it, among other things, the potential for intensified face-to-face interaction, short cognitive distance, common language, trustful relations between various actors, easy observations, and immediate comparisons (Malmberg & Maskell, 2002).

Two areas of primary investigation within regional innovation systems are: (1) Why are some regions more competitive than others? and (2) How can regional innovation systems be supported? Much of the extant literature on regional innovation sys-
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