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Chapter 3.

A Commons Perspective to Understanding the Development of Information Infrastructures

ABSTRACT

The critical review of the literature on information infrastructures has led to an identification of three key areas where future research needs to pay particular attention. These are: the multilevel context of infrastructural development, negotiations around that development, and intended and unintended outcomes emerging out of the implemented technologies. To understand the interdependencies between these three areas, this chapter explores research into other large-scale social systems (beyond information systems) to try to draw out some possible insights for information infrastructure research. In this effort, this chapter draws and adapts the Institutional Analysis and Development (IAD) framework – which was initially developed to study natural resource commons arrangements such as inshore fisheries, forests, irrigation systems, and pastures – while placing great emphasis on the complex problems and social dilemmas that often arise in the negotiations. The chapter concludes by highlighting the contribution of a commons perspective to understanding the development of information infrastructures.

INTRODUCTION

One of the oldest areas of research into large-scale social systems with historical accounts dating back to medieval times (see Hanna, Folke, and Mäler, 1996), is research into commons arrangements such as inshore fisheries, forests, irrigation systems, and pastures (e.g. Balland and Platteau, 1996; Ostrom, 1990; Wade, 1994). Although it may be argued that research into traditional commons may not immediately lend itself to information infrastructure research, an increasing number of scholars has found the concept of the commons helpful to conceptualize new dilemmas concerning new information and communication technologies (Rheingold, 1993; Brin, 1995; Huberman and Rajan, 1997; Gupta et al., 1997).

Indeed, information infrastructure research is found to share a common concern with research into commons arrangements in that, both are preoccupied with the development of large-scale systems. Such large-scale systems are thought to be openly accessible by a large population of users, but, at the same time, there are efforts to ensure that the exploitation of private and state interests are not inhibited. That is, there are efforts to enforce clear standards and regulations of practice to enable all parties involved to enjoy the benefits emanating from these large-scale systems. At the same time, while seeking to achieve such a balance, the various parties interested in the development of these large-scale systems do not want to lose sight of emerging problems. These include – in the case of information infrastructures – the interplay between the ‘local’ needs of the users and the ‘global’ intentions and interests of the larger, distributed community (Rolland and Monteiro, 2002), and the tension between standardization and flexibility (Hanseth, Monteiro, and Hatling, 1996; Hanseth et al., 2006; Monteiro, 1998), among others.

The Commons In Perspective

Katrin Zwirgmaier



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