INTRODUCTION

Electronic collaboration (e-collaboration) is operationally defined here as collaboration using electronic technologies among different individuals to accomplish a common task (Kock & D'Arcy, 2002; Kock, Davidson, Ocker, & Wazlawick, 2001). This is a broad definition that encompasses not only computer-mediated collaborative work but also collaborative work that is supported by other types of technologies that do not fit most people’s definition of a “computer.” One example of such technologies is the telephone, which is not, strictly speaking, a computer—even though some of today’s telephone devices probably have more processing power than some of the first computers back in the 1940s. Another example of technology that may enable e-collaboration is the teleconferencing suite, whose main components are cameras, televisions, and telecommunications devices.

The above operational definition, which I will use as a basis to discuss other related issues in this article, is arguably very broad, yet it is probably clearer than the general view of e-collaboration in industry, which some may also see as a bit unfocused. For example, some developers of e-collaboration tools, such as Microsoft Corporation and Groove Networks, emphasize their technologies’ support for the conduct of electronic meetings over the Internet. There seems to be a concern by those developers with offering features that make electronic meetings as similar to face-to-face meetings as possible.

Industry information technology publications such as CIO Magazine and Computerworld, on the other hand, often tend to favor a view of e-collaboration technologies as tools to support business-to-business electronic commerce and virtual supply chain management over the Web. These are business activities that are arguably substantially different from electronic meetings,
both in terms of scope and main goals. The primary audiences of industry information technology publications are information technology managers and professionals, who are the consumers of e-collaboration technologies. Given that, one can imagine the possible misunderstandings that may take place when those managers and professionals get together with developers’ sales representatives to discuss possible e-collaboration technology purchases.

**BACKGROUND**

As far as buzzwords are concerned, *e-collaboration* is still in its infancy, even though the technologies necessary to make e-collaboration happen have been around for quite some time. Strictly speaking, e-collaboration could have happened as early as the mid-1800s, with the invention of the telegraph by Samuel F. B. Morse. The telegraph allowed individuals to accomplish collaborative tasks interacting primarily electronically. If one assumes that the telegraph was too cumbersome to support e-collaboration, it may be more reasonable to argue that the birth of e-collaboration could have been soon after that, in the 1870s, with the invention of the telephone by Alexander Graham Bell.

Yet, for a variety of reasons, true e-collaboration had to wait many years to emerge. Did the commercialization of the first mainframe computers in the 1950s, following the ENIAC project, help much in that respect? Not really, and that was not necessarily due to technological obstacles to developing e-collaboration systems for mainframes. The real reason seems to have been the cost of mainframes (Kock, 1999, 2005), which was then seen as too high for them to be used (a) by anyone other than very specialized workers, who often dressed like medical doctors; or (b) for anything other than heavy data-processing-intensive and/or calculation-intensive applications. Of course, e-collaboration was not seen as one of those applications. Moreover, worker collaboration was not even a very fashionable management idea by the time the mainframes hit the market big time in the 1960s (Kock, 2002).

Then the ARPANET, the precursor of today’s Internet, happened in the late 1960s. The ARPANET Project’s main goal was to build a geographically distributed network of mainframes within the United States that could withstand a massive, and possibly nuclear, military attack by what was then known as the Soviet Union. By that time, mainframes were used in ballistics calculations, without which intercontinental missiles would not be as effective in reaching their targets as they were expected to be. The Project was motivated by the Cold War between the United States and the Soviet Union, which reached a tense stage in the early 1960s. The main sponsor of the ARPANET Project was the U.S. Department of Defense.

One of the tools developed to allow ARPANET users to exchange data was called “electronic mail” (e-mail). E-mail was initially perceived as a “toy” system, which researchers involved in the ARPANET Project used to casually interact with each other. This perception gave way to one that characterizes e-mail as the father (or mother) of all e-collaboration technologies (Sproull & Kiesler, 1991). To the surprise of many, serious use of e-mail grew quickly, primarily as a technology to support collaboration among researchers, university professors, and students—the primary users of the ARPANET while it was in its infancy.

So, in spite of the fact that other technologies already existed that could have been used for e-collaboration, e-mail was arguably the first technology to be used to support e-collaborative work. Interestingly, e-mail’s success as an e-collaboration technology has yet been unmatched—at least in organizational environments (college dorms do not qualify). This is somewhat surprising, given e-mail’s granddaddy status as far as e-collaboration is concerned. Helping it hold that enviable position is e-mail’s combination of simplicity, similarity to a widely used “low-tech”
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