

# Chapter 11

## Collaborative Learning

### An Effective Tool to Empower Communities

**Hakikur Rahman**

*Institute of Computer Management & Science, Bangladesh*

#### **ABSTRACT**

*Learning is considered as one of the potential tool to empower a community. Over the past three decades, technology mediated learning has been recognized as an alternate channel replacing/ supporting/ strengthening the traditional forms of education in various forms, especially with the advent of interactive and collaborative learning. Open and distance learning (ODL) emerges as a potential means of enhancing educational access. On the other hand, open educational resources (OER) emerge as a potential material of this new paradigm of knowledge acquisition process. However, the organizational learning at the peripheries and capacity development at the grass roots remain almost unattended, despite recognized global efforts under many bottom-up empowerment sequences. Social components at large within the transitional and developing economies remain outside the enclosure of universal access to information and thus access to knowledge has always been constricted to equitably compete with the global knowledge economy. Despite challenges in designing and implementing collaborative learning techniques and technologies, this chapter would like to emphasize on introducing collaborative learning at community level and improve the knowledge capacity at the grass roots for their empowerment. This chapter, further, investigates the relationship of collaborative learning towards improved e-governance. In the main thrust section, the chapter goes through various channels of collaborative learning, methods that could be adopted during the implementation, and technologies that could be availed during the dissemination phases of collaborative learning. Later on a few cases are being included, and before the conclusions, the chapter puts forward a few future research issues in the aspect of collaborative learning for empowerment of communities.*

DOI: 10.4018/978-1-60566-671-6.ch011

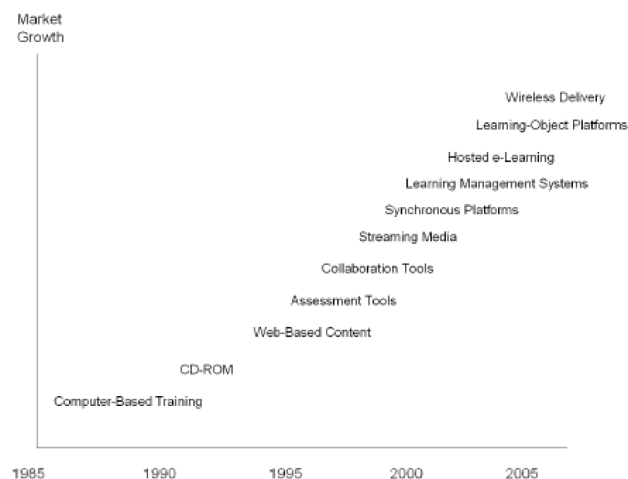
## INTRODUCTION

Learning nowadays is not only comprise of traditional brick-and-mortar classroom sessions, but also encompasses advanced computer assisted collaborative learning and peer learning (Roberts, 2004; Tu, 2004) that support education, knowledge development and research. In recent years, traditional education has shifted towards new methods of teaching and learning through the proliferation of information and communication technologies (ICT). At the same time, the continuous advances in technology enable the realization of a more distributed structure of knowledge transfer (Dutton, Kahin, O'Callaghan & Wyckoff, 2005; Iahad, Dafoulas, Milankovic-Atkinson & Murphy, 2005). Furthermore, Internet has allowed the learners and education providers to reach out the sky as the limit in designing, understanding and taking knowledge acquisition processes through various learning techniques. In addition, as classrooms do not remain enclosed to confined peripheries anymore, and the learners do not confined to regularly attended sessions anymore. Anyone, with capability and acceptability can attend a learning

session at any time in sequel of his/her career.

Learning is no more a customized pattern of education, but an accumulation of information, content and knowledge to become an accomplished sequence of knowledge acquisition. It is a shift from traditional education to ICT-based personalized, flexible, individualized, self-organized and at the same time collaborative, depending on the demand of a community of learners, teachers, facilitators, experts and researchers (Markus, 2008). Learning has broadened the door of knowledge acquisition processes in multi-disciplinary faculties through multi-dimensional approaches. It is become more dependent on the dynamism of interactive information and content, rather than static information and content that were only available in the form of print. As the society and community that have been based on information, has been more or less, turned into information society and as the economy of information society is mainly based on the creation, dissemination and exploitation of data, information and knowledge, thereby not only learning, but also the whole life system has been inclined towards the dynamism of information and content. In this aspect, Figure

*Figure 1. Technology evolution in e-Learning (Adopted from Markus, 2008)*



27 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage:

[www.igi-global.com/chapter/collaborative-learning-effective-tool-empower/36479](http://www.igi-global.com/chapter/collaborative-learning-effective-tool-empower/36479)

## Related Content

---

### E-Government Capabilities for 21st Century Security and Defense

Roy Ladner, Fred Petryand Frank McCreedy (2008). *International Journal of Electronic Government Research* (pp. 1-13).

[www.irma-international.org/article/government-capabilities-21st-century-security/2042](http://www.irma-international.org/article/government-capabilities-21st-century-security/2042)

### Government ICT Adoption: Global Trends, Drivers, and Barriers

Sujana Adapa (2013). *Human-Centered System Design for Electronic Governance* (pp. 1-14).

[www.irma-international.org/chapter/government-ict-adoption/74951](http://www.irma-international.org/chapter/government-ict-adoption/74951)

### Information and Communication Technology (ICT) for Intelligent Transportation Systems (ITS)

Robithoh Annurand Vasaki Ponnusamy (2020). *Employing Recent Technologies for Improved Digital Governance* (pp. 164-194).

[www.irma-international.org/chapter/information-and-communication-technology-ict-for-intelligent-transportation-systems-its/245981](http://www.irma-international.org/chapter/information-and-communication-technology-ict-for-intelligent-transportation-systems-its/245981)

### A Case of Affordances: Collaborative Governance Using Smartphones

Swapnil Sharma, Umar Bashir Mir, Arpan Kumar Karand M. P. Gupta (2022). *International Journal of Electronic Government Research* (pp. 1-21).

[www.irma-international.org/article/a-case-of-affordances/301256](http://www.irma-international.org/article/a-case-of-affordances/301256)

### Co-Creating Public Value in E-Government: A Case Study of Korean Municipal Government Websites

Seulki Lee-Geillerand Taejun (David) Lee (2019). *International Journal of Electronic Government Research* (pp. 19-36).

[www.irma-international.org/article/co-creating-public-value-in-e-government/257488](http://www.irma-international.org/article/co-creating-public-value-in-e-government/257488)