

# Chapter 2

## Knowledge Societies

### Landscape and Framework for Distinct Context Settings

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#### **ABSTRACT**

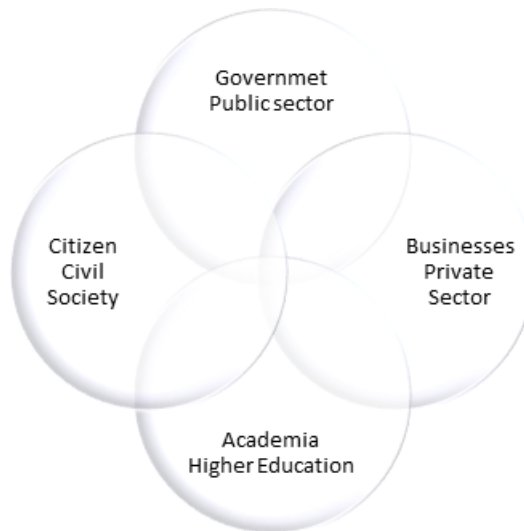
*The chapter attempts to do a comprehensive literature review on knowledge societies describing its main concepts, dimensions, aspects, and actors/players. In addition to the literature review, it proposes a framework to build knowledge societies. The framework presents seven dimensions, which have been extracted from the literature where each dimension is characterized by several aspects collected from the literature. The framework can be used by decision makers around the world as a useful tool for building robust knowledge societies in different context-specific environments.*

#### **1. INTRODUCTION**

This chapter makes an overview of knowledge society's concept, followed by the qualitative analysis of the research literature on this subject. Most of literature on how knowledge is created and applied to benefit society, considers knowledge as an instrument for innovation ("Towards knowledge-based economies in APEC," 2000). The helix representation is a very common way to illustrate the main players and nature of a knowledge society. In the foundation of knowledge society's concept, the triple helix has raised as the first one helix system (see Figure 1), with three main actors government, academia and businesses (Leydesdorff & Deakin, 2011) (Verdegem, 2011a).

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*Figure 1. Triple Helix Model*



Since then have emerged the quadruple helix system (see Figure 2) (Carayannis, Barth, & Campbell, 2012) (Lindberg, Danilda, & Torstensson, 2011) and quintuple helix system (Carayannis et al., 2012), which is essentially an extension of the previous one with the incorporation of environment component as a critical attribute for sustainable development (see Figure 3).

*Figure 2. Quadruple Helix Model*



*Figure 3. Helix Models for Knowledge Production*



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