

# Chapter 2

## Knowledge Societies Landscape and Framework for Distinct Context Settings

**Nuno Vasco Lopes**  
*United Nations University, Portugal*

### ABSTRACT

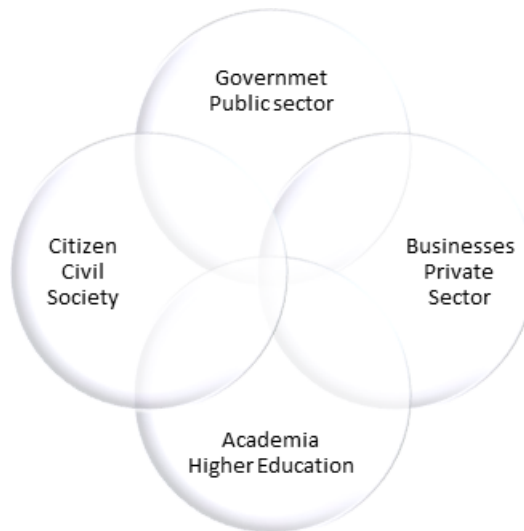
*The chapter attempts to do a comprehensive literature review on knowledge societies describing its main concepts, dimensions, aspects, and actors/players. In addition to the literature review, it proposes a framework to build knowledge societies. The framework presents seven dimensions, which have been 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).

DOI: 10.4018/978-1-5225-8873-3.ch002

*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*



40 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/knowledge-societies-landscape-and-framework-for-distinct-context-settings/266858](http://www.igi-global.com/chapter/knowledge-societies-landscape-and-framework-for-distinct-context-settings/266858)

## Related Content

---

### Feedback Fidelities in Three Different Types of Crisis Management Training Environments

Olga Druzhinina, Ebba Thora Hvannbergand Gyda Halldorsdottir (2013). *International Journal of Sociotechnology and Knowledge Development* (pp. 45-62).

[www.irma-international.org/article/feedback-fidelities-in-three-different-types-of-crisis-management-training-environments/89789](http://www.irma-international.org/article/feedback-fidelities-in-three-different-types-of-crisis-management-training-environments/89789)

### Decision Support System for Safety Stock and Safety Time Buffers in Multi-Item Single-Stage Industrial Supply Chains

Maryam Khokhar, Sayma Zia, Salman A. Khan, Syeda Tooba Saleem, Arsalan Ahmed Siddiquiand Mehdi Abbas (2023). *International Journal of Information Systems and Social Change* (pp. 1-13).

[www.irma-international.org/article/decision-support-system-for-safety-stock-and-safety-time-buffers-in-multi-item-single-stage-industrial-supply-chains/324933](http://www.irma-international.org/article/decision-support-system-for-safety-stock-and-safety-time-buffers-in-multi-item-single-stage-industrial-supply-chains/324933)

### Using Social Networks in Learning and Teaching in Higher Education: An Australian Case Study

Craig Deedand Anthony Edwards (2012). *Trends and Effects of Technology Advancement in the Knowledge Society* (pp. 90-101).

[www.irma-international.org/chapter/using-social-networks-learning-teaching/70098](http://www.irma-international.org/chapter/using-social-networks-learning-teaching/70098)

### Moodle-Based Software to Support the Learning of Web Programming

M. Antón-Rodríguez, M.A. Pérez-Juárez, F.J. Díaz-Pernas, F.J. Perozo-Rondón, M. Martínez-Zarzuelaand D. González-Ortega (2012). *International Journal of Knowledge Society Research* (pp. 16-28).

[www.irma-international.org/article/moodle-based-software-support-learning/70411](http://www.irma-international.org/article/moodle-based-software-support-learning/70411)

## Using the Interpretative Structural Modeling Approach for Understanding the Relationships of Drivers of Online Shopping: Evidence From a Developing Economy

Roy Jucip Tabañag Basar III, Honey Rose Borden, Manuel Lorenzo Busano III, Xelani Kaye Gonzales, Vanessa Grace Guerrero, Tiffany Adelaine Tan, Leahlizbeth Sia, Kafferine D. Yamagishiand Lanndon Ocampo (2021). *International Journal of Sociotechnology and Knowledge Development* (pp. 90-104).

[www.irma-international.org/article/using-the-interpretative-structural-modeling-approach-for-understanding-the-relationships-of-drivers-of-online-shopping/275745](http://www.irma-international.org/article/using-the-interpretative-structural-modeling-approach-for-understanding-the-relationships-of-drivers-of-online-shopping/275745)