

Foundations of Scientific Thought in the Age of Knowledge and Its Practical Implications in Research

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To cite this article:

Cesar Alonso Bohórquez Meleán, Priscila Isabel Ávila, Martha Elena Galvis, Adriana Cecilia Alcaraz. Foundations of Scientific Thought in the Age of Knowledge and Its Practical Implications in Research. *Science Journal of Education*. Vol. 10, No. 6, 2022, pp. 174-179.
doi: 10.11648/j.sjedu.20221006.12

Received: December 28, 2021; Accepted: January 27, 2022; Published: January 10, 2023

Abstract: The searches for creative and holistic solutions favorable to the resolution of complex problems that underlie an interconnected world governed by Information and Communication Technologies (ICT) have stimulated the emergence of approaches with an emphasis on the integration of knowledge that represents scientific thought in the age of knowledge. This article aims to analyze the foundations of scientific thought in the age of knowledge and its practical implications in research. It is based on the integrationist epistemological approaches to research (Connectivism, System and Complex Thought) proposed according to the theoretical criteria of Bohórquez (2020), Bohórquez, Cabarcas and Ávila (2020), Martínez (2012), Fidiás (2012), Corbetta (2010), Bernal (2010), Hurtado (2010), Barreras (2010), Siemens (2004) among others. It represents the product of a qualitative - interpretive investigation of documentary review, guided by methods and techniques inherent to documentary analysis and hermeneutics. The results warn that, in the era of knowledge, an integrationist scientific thought has been configured, based on the resignification of the concept of social science, which assigns a holistic character to research. It is concluded that the adoption of this thought has originated a set of practical implications in the research processes and methods that currently has the support of the world scientific community, among them the following stand out: 1. Plurality of methods, 2. Complementarity of methods, 3. Synergistic work (cooperation, collaboration) between researchers, scientific communities and research centers; and, 4. Organization of the investigative work in plans, programs and projects.

Keywords: Knowledge, Scientific Thought, Holistic Research, Globalization

1. Introduction

The challenges of an interconnected global society governed by Information and Communication Technologies (ICTs) have stimulated the evolution of scientific thinking regarding research methods and their impact on the human development of peoples. During the last century, the resignification of the concept of social sciences became notable after man became aware of the complexity of research processes, discovering that these do not occur in a linear way and are adaptable to any context, but on the contrary, imply a reflective and dynamic process that seeks to respond to the changes that arise day by day in their

environment.

This is how educational institutions and research centers, given the complexity of the global environment, have set their sights on a holistic research model that allows breaking with scientific dogmatism and guaranteeing the relevance of research processes, for which it is essential to promote a more inclusive research practice - cooperative, where the synergy between researchers represents a fundamental element to adapt to the knowledge society. However, there are still vestiges of a radical academic trend that resists these changes by imposing recipes to approach

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teachers Or should science education seek to foster sound science learning within the matrices ofvari ous cultural
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