

Digital Transformation: Study of Socio-Technological Impact on Vocational Education

by Pardjono, Moch. Bruri Triyono, Sukardi, Fajar Nurtantyo

ABSTRACT

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This study is a library research to reveal the development of digital technology and its impact on society including its impact on industries, social services, and health. The study focuses on the impact on the field of education, especially vocational education and its implications for changing learning principles and methods since the adoption of information technology has changed the way people think. So that the way of delivering, learning and teaching, communicating, collaborating, and the way solving social problems are changing.

The library research begins by looking for high quality of resource such as textbooks, and reputable scientific journal published in the last five year. The domestic journals is at Sinta accredited while the international is at scopus indexing journals. Data analysis was carried out by making a systematic bibliography using application. Concepts and theories cited than compared and synthesized to make deductive conclusion.

The findings of the study are key and supporting competencies that workforce must have in order to survive in industrial era 4.0 and really need to be mastered by vocational training students. The key competencies including *learnability*, *agility*, and *curiosity* while supporting competencies covers eight competencies covering: desire to succeed, data handling skills, strategic problem solving skills, business acumen and looking for opportunities, collaboration in cyberspace, digital communication, mental resilience under pressure, and coaching mindset. The findings in philosophy of vocational education which in line with the change of the competencies, are idealism, realism, pragmatism, and reconstructionism with instructional principles, namely *pedagogy*, *andragogy*, *heutagogy*, dan *cybergogy*. Other research findings in term of the teaching models are project-based learning, production-based learning, work-based learning, problem-based learning, teaching factory, inquiry learning, discovery learning, dan STEAM learning.

Keywords: digital transformation, core competence, vocational education.

Kata Kunci: *digital transformation*, *core competencies*, *vocational education*