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Technology and Values - Driven Transformation in Education

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ABSTRACT

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Topic: Development of Frameworks for Assessing the Readiness of TVET
Institutions for IR 4.0

The Industrial revolution is coming and has impacted the way we live, learn and work. The adoption of digitalisation in preparation for industrial revolution (IR) 4.0 or even beyond is inevitable for technical and vocational education and training or TVET institutions. Much have been introduced and discussed about TVET 4.0, but the scope, including the variables and indicators are not clearly defined. For that reason, having a suitable framework that can be used to assess the readiness of TVET institutions in preparing for industrial revolution or future technological innovation is very much needed. This paper will explore, compare, and discuss various frameworks both related to those for assessing the readiness of industry and education institutions for IR 4.0 integration. Based on the workshops organised by SEAMEO VECTECH in September and November 2022 and a pilot study of the instrument, a proposed framework will be shared and discussed in this paper including the assessment tools for TVET institutions. This paper will also offer some recommendations how to use the framework and the assessment tools for the development of institutional roadmaps based on the level of TVET 4.0/technological adoption at the institution.

Keywords: Technical and Vocational Education and Training (TVET), conceptual framework, Readiness for Industrial Revolution 4.0, digitalization.