A novel conceptual framework of Health information systems (HIS) sustainability

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Abstract

Suitable technology means technology is capable of being maintained over a long span of years, independent of skilled labor. This is in both hardware and software; effective implementation and use of Health Information Systems (HIS) for years to come is crucial to sustainable HIS. However, very few studies discussed factors contributing towards successful implementation of HIS. This paper identifies four crucial factors that shape the sustainable HIS. The importance of strong leadership support, proper contingency planning and practice, continuous vendor support and protection of security and privacy issues are identified by classifying the factors into four constructs, and with it, we argue these factors crucial for sustainable HIS. The paper proposes a novel conceptual framework, which we hope will be used as a reference for future studies. This paper also describes the theoretical basis behind the development of the model and methodology to be employed to validate the proposed model © 2017 IEEE.