

Abstract

Big data has become a prominent asset in improving decision-making qualities within organizations. As a sector that can produce massive data, the public sector has the potential to enhance the policymaking process as well as citizen-centered public service through implementing big data. However, plenty of public organizations in developing economies, including Indonesia, have been unable to maximize this. Hence, this paper examines big data readiness assessment and analysis of public sectors in Indonesia. Using a big data readiness framework, this research provides an organization with a progression to a particular stage of big data implementation through objective assessment by experts working in public organizations. A descriptive analysis uses a structured questionnaire to analyze organizational alignment, maturity, and capabilities. The results show that Indonesia's public sector is currently ready for planning and early design of big data use with a moderate level of organizational alignment and a low level of maturity and capabilities. Significant improvements in infrastructure, data expertise, internal and external commitment, proper legal compliance, and data regulation are needed to maximize big data implementation. Additionally, enabling accessible data sharing within and beyond organizations is critical to prevent data silos.

Keywords: *big data, big data implementation, big data readiness, public sector.*