

ABSTRACT

The Ministry of Communication and Digital, particularly the Directorate General of Digital Ecosystem, faces challenges in risk management due to the absence of an ISO 31000-based risk assessment system and the limitations of the currently used application. Issues encountered include the lack of residual risk recording, the application's inability to accommodate changes in risk management guidelines, and the manual approval process for the Risk Control Self-Assessment (RCSA) documentation. To address these issues, user needs analysis was conducted through interviews, business process design was created using Business Process Modeling and Notation (BPMN), and the Enterprise Risk Management System (ERMS) application was developed using the Scrum method. The result of this study is a more flexible, adaptive ERMS system design aligned with the latest risk management standards, expected to improve the effectiveness and efficiency of risk management within the Directorate General of Digital Ecosystem.

Keywords: *Risk Management, ISO 31000, Risk Control Self-Assessment (RCSA), ERMS, Scrum, BPMN*