



THE 4TH MULAWARMAN INTERNATIONAL
CONFERENCE ON TROPICAL PUBLIC HEALTH
(MICTOPH) 2025



ABSTRACT

Title of Abstract : AI-Driven Occupational Health and Safety Innovation: The Sehat Kerjaku Application Supporting CHSE at Hospitality Sector
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Background : The tourism and hospitality sectors require strict implementation of Cleanliness, Health, Safety, and Environmental Sustainability (CHSE) standards to ensure guest safety and sustainable business operations. However, many hospitality enterprises—especially small and medium-sized hotels—face difficulties maintaining consistent CHSE compliance due to limited resources and manual monitoring systems. To address this gap, the Sehat Kerjaku application was developed as an artificial intelligence (AI)-based innovation to strengthen occupational health and safety (OHS) management while supporting CHSE implementation

Objective : This study aims to analyze how the Sehat Kerjaku platform enhances digital transformation in the hospitality sector through intelligent health and safety monitoring.

Research Methods/ Implementation Methods : A descriptive qualitative method was applied using field observations, document analysis, and semi-structured interviews with hotel managers and OHS officers in Bali

Results : Findings reveal that the integration of AI within Sehat Kerjaku enhances CHSE implementation efficiency. The application enables predictive risk detection, digital hygiene audits, and automated worker health monitoring. Hotels using the system reported improved data accuracy, faster audit processes, and stronger employee engagement in safety practices. AI-based analytics further support evidence-based management decisions related to occupational safety and environmental health

Conclusion/Lesson Learned : The Sehat Kerjaku application demonstrates that AI-based OHS innovation can effectively strengthen CHSE compliance and promote sustainable tourism practices. Its broader adoption can help accelerate digital transformation and resilience in Indonesia's hospitality industry

Keyword : Sehat Kerjaku; Artificial Intelligence; CHSE; Occupational Health and Safety; Hospitality Industry; Sustainable Tourism