Addressing the Implication of the Construction 4.0 Policy in Malaysia

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ABSTRACT

The rise of digitalization is prompting governments to reconsider their strategies due to challenges faced by industries during this transition. Governments have prioritized Industry 4.0, implementing large-scale policies to enhance productivity, competitiveness, and workforce skills. However, understanding the complex process of policy change poses difficulties in driving necessary transformations. This research introduces the Kaleidoscope Model, which offers a roadmap for policymakers to perform effective changes with the moderating effect—challenges faced. The study employs document analysis and semi-structured interviews for qualitative data through content analysis. Results highlight that Policy Adoption and Policy Implementation notably influence the evaluation of the Construction 4.0 policy's effectiveness. Interestingly, the final model doesn't show a clear link between the Kaleidoscope Model and policy evaluation due to moderating effects. This research expands political science by aiding the implementation of the Construction 4.0 policy, providing guidelines for policymakers and construction stakeholders. By embracing advanced technologies, the construction industry's dynamics are transformed to align with the goals of the policy.

Keywords: Construction 4.0 Policy; Construction Industry; Implication; Malaysia; Policy Change