

Cross-party collaboration to reduce construction waste to design-build projects

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Abstrak

Waste in the construction industry is a severe problem in various countries in the world, including in Indonesia. Several studies on construction projects over the last three years have found that the Construction Waste (CW) tendency has increased significantly. The objective of this study is to identify existing CW in design-build project and how it can be reduced by increasing collaboration between the stakeholders involved in such projects. The survey method is used to explore and find solutions to the CW problems, and to reduce it by increasing collaboration. Data were obtained from 127 respondents working on a design-build construction project, then processed by using the SEM-PLS 3.0 Professional program to estimate the causal-predictive relationships between stakeholder, culture, communication, conflict, and the collaborative variables that affect the reduction in construction waste on design-build project. A collaborative model between the parties implemented by managing those involved, understanding the culture, minimizing conflict and improving communication, can reduce both physical waste and non-physical construction waste.