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Application of construction suitability map in sustaining the highland development from geohazard in Malaysia

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Abstract: Sustainable Development Goals (SDGs) number 11 highlights the essentials of preparing sustainable cities and communities. This includes sustaining highland development from any geohazard such as landslides. To achieve this effort, a lot of policies and guidelines were established in Malaysia including Construction Suitability Map (CSM). CSM is an important tool in preliminary stage of a highland development where it able to identify possible geohazards and percentage of existence of water bodies or any cut slope of the proposed development area can be identified. However, despite the general agreement about the effectiveness of CSM, the usage of CSM among the developer are still low and less work has been reported on effectiveness of CSM application. Thus, this work aim to analyse the effectiveness of CSM application on 22 selected projects of various highland developments around Malaysia. Based on the findings, 10 projects were under suitable development classes and remaining projects need to change their layout or development structure based on the development class before they can proceed with any development.

Keywords: Sustainable Development Goals (SDG), geohazard, geology terrain mapping, development classes, resilient, highland development