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## “Megatrend Penduduk dan Dinamik Keluarga: Cabaran untuk Masa Depan Lebih Berkualiti”

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**19-21 November 2025**

Eastin Hotel, Petaling Jaya,  
Selangor



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**SPATIAL DIVERGENCE IN AGEING AND DEPENDENCY BURDEN ACROSS ADMINISTRATIVE DISTRICTS IN SARAWAK (2010–2020)**

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**ABSTRACT**

The demographic megatrend of population ageing presents profound challenges for Malaysia's development agenda, particularly in East Malaysian states like Sarawak, where the pace of demographic transition is regionally uneven. While national-level projections forecast Malaysia becoming an aged nation by 2030, subnational disparities in ageing patterns and dependency burden are rarely analysed in spatially explicit terms. This gap limits the ability of local policymakers to plan for age-related pressures on social infrastructure, healthcare, and economic productivity. This study aims to examine the spatial divergence of ageing and dependency burden across administrative districts in Sarawak between 2010 and 2020. Using demographic data from the Department of Statistics Malaysia, the study calculates two key indicators: the Old-Age Dependency Ratio (OADR) and the Total Dependency Ratio (TDR). To identify spatial clusters of significant demographic burden, Hotspot Analysis (Getis-Ord  $G_i^*$ ) was applied to 2020 data. Additionally, K-means Cluster Analysis was employed to classify districts into distinct ageing profiles based on their demographic transition rates and elderly population growth. The findings