Smart Technologies in Construction: A Young Surveyor's View on Innovation and Impact

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SUMMARY

Title: Smart Technologies in Construction: A Young Surveyor's View on Innovation and Impact

Abstract:

Smart technologies are transforming the design, monitoring, and delivery of construction projects, causing a digital revolution in the construction industry. This change offers young professionals and emerging economies alike the chance to overcome long-standing problems as well as difficulties. The future of construction management is being shaped by smart technologies, including digital project dashboards, AI-powered planning tools, real-time sensors, and Building Information Modelling (BIM), as seen through the eyes of a quantity surveying student who is actively involved in fieldwork and innovation.

The study emphasises how the use of smart tools can enhance decision-making, cost control, and sustainability outcomes—especially when customised for local contexts—by drawing on site experiences in Nigeria and a more comprehensive examination of contemporary trends. It also explores the gaps in access, education, and integration that young professionals encounter when shifting from academic knowledge to hands-on tech work.

Based on the Congress theme "The Future We Want – The SDGs and Beyond", this paper advocates for building capacity, supporting policies, and collaborating across generations to empower the next generation of construction leaders. It suggests that in order to deliver inclusive, effective, and resilient infrastructure in the developing nations, young surveyors must actively shape their use of smart technologies in addition to adjusting to them.