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Title: Identifying Factors to Improve Real-Time Collaboration in High-Rise Construction			
<p>Abstract</p> <p>Innovation with emphasis on information and communication technology (ICT) has become both a success factor and impairment in high rise building (HRB) construction projects worldwide. Construction is shifting from individual knowledge work to team-based collaboration but lags due to its size and complexity behind other industries in respect of both acquisition and use of mobile communication systems to improve collaboration of its workforce. According to interviews, the level of skilled trade workers is expected to increase by 10% or more in the next years and thus, identifying the potential of streamlining collaboration by construction personnel on sites will be vital to success in future projects. This exploratory study investigated the perceptions of three construction stakeholders, namely construction workers, construction managers and technology providers, and identified forty-five (45) factors including four (4) key implementation strategies that support or constrain real-time collaboration in HRB projects. The paper aims at providing stakeholders a clearer understanding on the implication of coordinated actions, strategies and policies. The study revealed forty five (45) factors to improve real-time collaboration in high-rise construction. Three countries have been observed and the differences between have been concluded. The study identified that emerging mobile communication technology has the capability to not only improve data and information sharing but rather clearly confirms that it improves work performance entirely in practice. A collaborative system model has been developed by using Causal Loop analysis and Bayesian Network models to analyze systemic actions. The most suitable devices and interventions for each country has been concluded.</p>			
<p>Key Words</p> <p>ICT, real-time collaboration, mobile communication, high rise building construction</p>			