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Construction Supply Chain Management for Circular Economy

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Message from the Guest Editor

Of all industrial sectors, building and construction sector has been deemed to consume the most natural resources and raw materials. Construction material manufacture and construction works contribute largely to greenhouse gas emissions and waste. The circular economy (CE) aims to improve resource efficiency and reduce raw material consumption across sectors. In building and construction, much work has been done in research and practice to apply CE to the sector. However, major obstacles are linked to the unstable nature of construction works and the supply chain. Solutions lie in novel approaches to managing supply chains, including but not limited to closed-loop supply chains, applying circular design principles, circular procurement and sourcing, and reverse logistics. These approaches can both reduce amounts of raw materials used in construction materials and projects and increase the potential of the extended life cycle use of materials and the reuse of waste as well. This SI is aimed at theoretical and empirical research contributions developing and studying novel approaches to supply chain management in building and construction that support the aims and effects of the CE.