

Blockchain Technology Applications: A Conceptual Framework from a Supply Chain Perspective



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The potential provided by Blockchain Technology (BCT) represents incredible improvements and possibilities. Up to now, there is no comprehensive scientific work that systematically explores how BCT should be used. Because of this the study aims to explore applications of BCT in general and to specify the individual use for SCM and SCF solutions in particular. Moreover, a useful framework is missing, explaining the potential for finance and supply chain administration to converge on this scale. Consequently a framework for both, research and practice, has been elaborated to comprehend how BCT impacts existing structures to be able to provide a differentiated basis for problem-solving, implementation and decision making. Only generic investigation in type of white papers, reports and studies have been undertaken. You start with bitcoin in 2008 and further supported simply by the rise of FinTech, Blockchain as a technology has gained a lot of attention lately. Physical documents are no more the only methods to develop thrust between unknown disparate parties or agents. Beside a relevant desk research to identify use situations, a systematic evaluation and dialogue is conducted. To be able to fill this analysis gap following factors have been addressed: How will BCT impact existing structures regarding the economic and the material stream? - Identify and analyze the application form potential generally and specifically - Quantify and evaluate the impact within the practical context - Identify features and schemes for SCF - Solutions - Develop of a conceptual approach and practical framework for SCF



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