

Potentials of Blockchain Technology in Supply Chain Management

Graduate



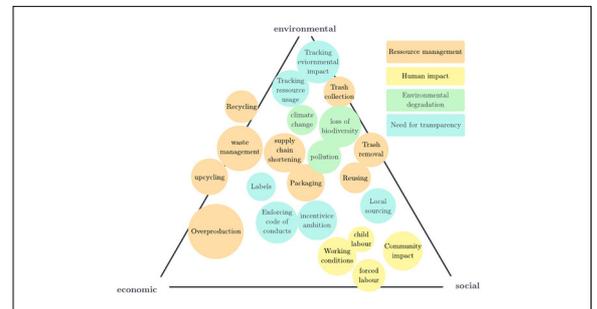
Mike Gründler

Objective: Blockchain has made the headlines numerous times during the last few years, yet it is still an emerging technology. Cognizant is a global IT services and consulting company that sees blockchain as a potential technology to enable sustainability solutions along its clients' supply chain. The task of this thesis was to identify and classify these potentials and develop an assessment tool to evaluate companies' readiness to exploit these potentials.

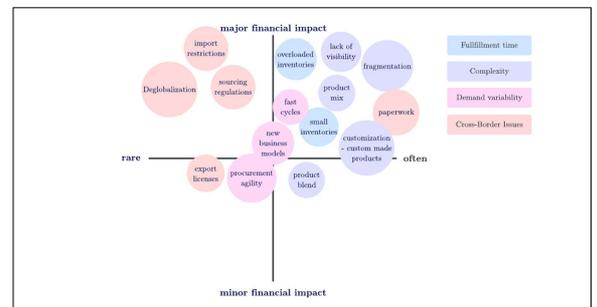
Approach: To identify the potential of blockchain technology in supply chain and sustainability, related blockchain solutions were analyzed and segmented. To discover the relevant business challenges of Cognizant's clients, semi-structured explorative interviews with experts from the sustainability practice were conducted. These interviews were structured according to findings in technical literature. The segmented solutions and the findings in the interviews were then linked to create a use case matching tool to match business challenges with blockchain solutions. To assess the client's readiness for the proposed solution, a readiness tool was created based on semi-structured explorative interviews with blockchain experts.

Result: A significant outcome of the thesis is the segmentation of blockchain solutions and matching them with the business challenges of Cognizant's clients. This results in a tool to match use cases to companies. Another major outcome is the insight from interviews into "readiness for blockchain." These insights are then compiled into a blockchain readiness tool. Finally, the thesis explains how to use Excel-based tools and describes them, including their limitations.

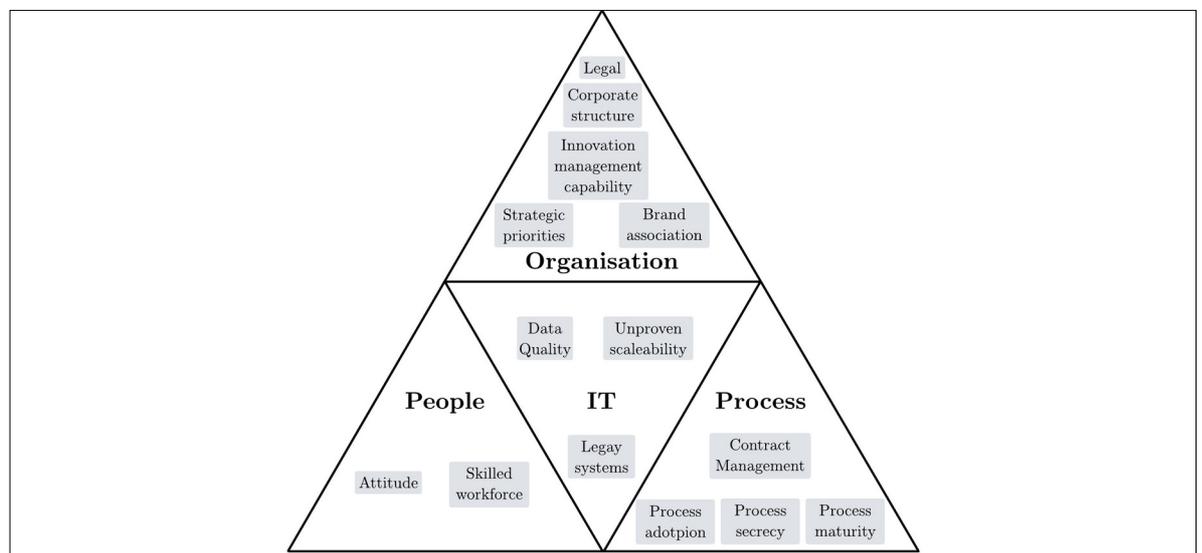
Hot sustainability issues in 2022
Own presentation



Hot supply chain issues in 2022
Own presentation



Relevant fields for blockchain readiness
Own presentation



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Subject Area

Supply Chain Management

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