Opportunities and Challenges with Automating Food Supply Chain

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Abstract: Supply Chain Solutions is one of the disciplines that is undergoing rapid change. Automation is the leading factor in this change. Many IT companies are investing heavily in these technologies and offer to make this change smooth and efficient.

Supply chain in the food industry is one of the areas that is attracting special attention from all stakeholders. Food supply chains have their own unique features, such as a high rate of perishability, customer preference for long expiry dates, contamination, etc. This paper deals with some of the challenges in this area based on field experience and a comprehensive survey of leading firms in this food supply industry. Various strategies are discussed to cope with these challenges. The advent of modern technologies like IoT, Real-time Time and Temperature Monitoring etc., and their potential use in food supply chains are explored.

Keywords: Food Supply Chains, Challenges in Supply Chains, IoT, Machine Learning