

# USE OF DIGITALISATION TO REDUCE WASTE IN MANUFACTURING

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## Abstract

This paper discusses the challenge of waste in the manufacturing industry and how digitalisation can address this issue. Specifically, it explores the potential impact of digitalisation on waste reduction in the human and animal medicine manufacturing sectors. Digitalisation can reduce waste in medicine manufacturing through real-time quality control and predictive maintenance. The article emphasises the importance of collaboration and data-driven decision-making in implementing digitalisation. Manufacturing companies have historically adopted a culture of simplification and economies of scale, often conflicting with the biological realities of personalised medicine and rare diseases. The waste problem associated with this approach is explored in the context of the pharmaceutical industry. As digital technology evolves to meet public demand for personalised therapies, the industry must balance allo- and autotherapies to address diverse patient needs. The Risk of Missing Out (ROMO) concept is introduced as a critical consideration for future developments in healthcare. In the end, the article highlights how the personalised medicine trend can shift power from manufacturers to end-users and proposes a blockchain-based social network platform, the MedConnect Network, to empower end-users of medicines.

**Keywords:** MedConnect, cryptography, collaboration tools, empowerment tools, ROMO