

Stitching the Future: CLO 3D Software and AIoT in Circular Fashion Transformation: The Digital Imperative for Aotearoa New Zealand Fashion

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Abstract

The Aotearoa New Zealand fashion industry is experiencing a significant digital transformation, driven by the integration of advanced technologies such as CLO 3D, artificial intelligence (AI), and the Internet of Things (IoT). These innovations are reshaping design, production and supply-chain processes, enabling the sector to become more sustainable, ethical and responsive to market needs. Digital tools such as CLO 3D allow for immersive 3D garment design and virtual sampling, which greatly reduces physical waste and accelerates product development. AI-driven analytics help brands better understand market trends and forecast demand, while IoT-enabled micro factories support real-time monitoring of production quality and resource usage. Collaborative cloud platforms and blockchain technology further enhance transparency, traceability and trust throughout the supply chain.

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