

Digital Transformation and Supply Chain Resilience: A Systematic Review of Enabling Technologies

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Abstract . In an era increasingly shaped by unexpected disruptions, supply chains must adapt through digital innovation. This paper conducts a systematic literature review to examine how digital transformation driven by advanced technologies such as AI, IoT, and blockchain reinforces supply chain resilience. We identify how these technologies improve visibility, enable predictive capabilities, and support proactive risk management. The analysis further reveals the importance of developing digital capabilities and rethinking organizational practices to fully leverage these technologies. Grounded in Sociotechnical Systems Theory, this study emphasizes the need for a harmonious integration between technological tools and human-organizational systems to foster agility, responsiveness, and continuity in turbulent environments.

Keywords. Digital transformation, Supply chain resilience, Advanced technologies .

