

1. Record Nr.	UNINA9910876832303321
Titolo	The digital transformation of logistics : demystifying impacts of the fourth industrial revolution // edited by Mac Sullivan, Johannes Kern
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, : IEEE P., 2021
ISBN	1-119-64645-6 1-119-64640-5 1-119-64649-9
Descrizione fisica	1 online resource (xxxvi, 440 p.) : ill
Collana	IEEE Press series on technology management, innovation, and leadership
Altri autori (Persone)	SullivanMac KernJohannes (Writer on logistics)
Disciplina	658.500285
Soggetti	Business logistics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Section I Introduction -- 1. Demystifying the Impacts of the Fourth Industrial Revolution on Logistics / Mac Sullivan -- Section II Technologies -- 2. Technologies Driving Digital Transformation / Mac Sullivan -- 3. Logistics Management in an IoT World / Axel Neher -- 4. Additive Manufacturing: Shaping the Supply Chain Revolution / Johannes Kern -- 5. The Role of Robotic Process Automation (RPA) in Logistics / Mac Sullivan, Walter Simpson, and Wesley Li -- 6. Blockchain Will Animate Tomorrow's Integrated Global Logistics Systems / Nicholas Krapels -- 7. Digitalization Solutions in the Competitive CEP Industry - Experiences from a Global Player in China / Scott Wang and Johannes Kern -- 8. Understanding the Impacts of Autonomous Vehicles in Logistics / Lionel Willems -- 9. Logistics in the Cloud-Powered Workplace / John Berry -- Section III Platforms -- 10. Platforms Enabling Digital Transformation / Mac Sullivan -- 11. The Digital Transformation of Freight Forwarders: Key Trends in the Future / Ruben Huber -- 12. International Trade Revolution with Smart Contracts / Matas Arguiz, Andrea Margheri, Duoqi Xu, and Bill Tran -- 13. Exploring China's Digital Silk Road / Andre Wheeler -- 14. Marine Terminal Operating Systems: Connecting Ports into the Digital World / Ira Breskin and Ayush Pandey -- 15. Improving Cross-Border

eCommerce Through Digitalization: the Case of Compliance in B2C Shipments / Simon Raadt and Jiao Xu -- 16. Enabling Platform Business Models for International Logistics / Sam Heuck and Cory Margand -- 17. The Evolution of the Cold Chain: a Story of Increasing Complexity Amidst a Sea of Traditional Thinkig / Alex von Stempel -- Section IV People -- 18. People Navigating Digital Transformation / Johannes Kern -- 19. Change Management Falling Short - the Call for Business Transformation / Michael Teubenbacher -- 20. Organizational Culture Change: Process to Sustainably Improve Performance / Robert Mostert and Johannes Kern -- 21. Competence Management as an Enabler for the Digital Transformation of the Supply Chain / Jiayu Sun -- 22. Impacts of Digitalization on Traceability: a Case Study of the Carbon Fiber Supply Chain / Cameron Johnson -- 23. The Evolution of Freight Forwarding Sales / Mac Sullivan, Dennis Wong, and Zheyuan Tang -- 24. Managing and Selecting Logistics Service Suppliers / Colin Cobb and Dyci Sfregola -- Section V Conclusion -- 24. The Digital Transformation of Logistics: a Review About Technologies and Their Implentation Status / Johannes Kern -- Glossary -- Index.

---

## Sommario/riassunto

The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and must be on board to drive change. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for

managing strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties.

---