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Nota di contenuto	Part I. Understanding the Universe of Distributed and Decentralised Systems -- Chapter 1: Making sense of distributed and decentralised systems -- Chapter 2: An architectural overview of Distributed Ledger Technologies -- Chapter 3: Consensus Mechanisms -- Chapter 4: Governance of distributed ledgers -- Chapter 5: Assurance, audit, accounting and risk management in the context of digital assets -- Chapter 6: Regulation and Compliance in distributed ledgers -- Part II. The Building Blocks for the Digital Financial Ecosystem -- Chapter 7: Digital Financial Infrastructure -- Chapter 8: A map of the financial value chain -- Chapter 9: Digital Assets -- Chapter 10: Identity -- Chapter 11: Regulation -- Chapter 12: Governance -- Chapter 13: Risks -- Chapter 14: Value capture -- Part III. Digital Economies -- Chapter 15: What is tokenomics? -- Chapter 16: Innovative forms of instruments facilitated by tokenomics -- Chapter 17: An overview of the shared economy -- Chapter 18: Digital marketplaces -- Chapter 19: Will history repeat itself? -- Chapter 20: Human Rights concerns --

Part IV. Designing the Digital Infrastructure of the Future -- Chapter 21: Why is digitising the financial infrastructure a good idea? -- Chapter 22: Creating a digital payment system for the globe -- Chapter 23: Securities trading, clearing and settlement into the digital space -- Chapter 24: Interoperability -- Part V: What the Future Holds -- Chapter 25: Overview of emerging technologies and the way these interact with each other (AI, DLT, cloud, etc.) -- Chapter 26: Potential future scenarios.

Sommario/riassunto

The rise of smartphones, social media, cryptocurrencies and digital assets has changed our lives profoundly over the last decade. In tandem, the relationship between governments, citizens and businesses has evolved, creating new sets of challenges and imbalances, but also opportunities. This book focuses on the evolving digitisation of the financial industry and the impact this has on users. Particular attention is given to the emergence of new technologies such as blockchain, smart contracts and AI. The increasingly interconnected, data-driven digital economy, which includes many aspects of an individual's and organisation's life, has become a challenge for regulators, too. Matters are complex but also increasingly centralised, with a growing trend of distrust. Should we push for more decentralisation? To shed light on this question we begin by providing an overview of key concepts and develop a high-level qualitative framework and approach to what we call 'Redecentralisation'. Delving into those technology areas that form part of the tectonic plate shift of our financial system we explore the pillars of money and payments that are at a turning point with the replacement of key infrastructural components necessary for the future of what we call the Digital Financial Ecosystem. Digital identity and data privacy also form part of this broader puzzle. We then look to the future to consider some of the latest trends and 'what if' scenarios. Where do we see Redecentralisation at play in the Digital Financial Ecosystem? What is the role of technology in this, e.g. Web3, the Metaverse and Decentralised Finance? Can Redecentralisation support an alignment of values across people, governments and businesses? What is the role of technology in this? And finally, do we need a new digital social contract to underpin and protect our digital lives? Ruth Wandhöfer operates at the nexus of finance, technology and regulation and is passionate about creating the digital financial ecosystem of the future. An expert in the field of banking, technology and regulation she is a public speaker and provides training and coaching for the finance industry as well as the Fintech community. Following her banking career at Citi, Ruth is now an independent Non-Executive Director on the boards of a bank, an exchange and two technology firms, a Partner at Gauss Ventures and Chair of the UK Payment Systems Regulator Panel. She is also an advisor of the City of London Corporation, the British Standards Institution and the European Third Party Provider Association (ETPPA). She is a Visiting Professor at Bayes (formerly CASS) Business School City University London where she gained her PhD as well as at the London Institute of Banking and Finance and occasional lecturer at Queen Mary London School of Law. She published two books: EU Payments Integration (2010) and Transaction Banking and the Impact of Regulatory Change (2014), both Palgrave Macmillan. Hazem Danny Nakib is a financial and digital technology expert, having worked in different roles at the Royal Bank of Canada and in secondelement at the Boston Consulting Group. Hazem is an honorary researcher at the University College London, Fellow of the Royal Society of Arts, Associate at the London School of Economics Systemic Risk Centre, and visiting researcher at the University of Cambridge and sits on the

Digital Strategic Advisory Board of the British Standards Institution. Hazem holds a BBA Management Specialist from the University of Toronto, BA in law from the University of Cambridge and BCL from the University of Oxford, as well as an MA (ad eundem) from the University of Oxford.
