

Contents

1 Introduction—Why to Pay Attention on Blockchain-Driven Supply Chain Finance?	1
1.1 Purpose.....	2
1.2 Structure.....	2
1.3 Brief Look at the Literature.....	4
References.....	5
2 Background I—What Is Buyer-Led Supply Chain Finance?	7
2.1 Defining Buyer-Led Supply Chain Finance.....	7
2.2 Overview of Approved Payables Financing Instruments.....	17
2.2.1 Dynamic Discounting.....	17
2.2.2 Reverse Factoring.....	17
2.2.3 Reverse Securitisation.....	19
2.3 Key Drivers of Approved Payables Financing Instruments.....	19
References.....	22
3 Background II—What Is Reverse Securitisation?	25
3.1 Defining Securitisation in Supply Chain Finance.....	25
3.1.1 Supplier-Led Account Receivables Securitisation.....	26
3.1.2 Inventory Securitisation.....	28
3.1.3 Buyer-Led-Approved Payables Securitisation.....	28
3.2 Key Characteristics of Reverse Securitisation.....	29
3.2.1 Structuring Options.....	29
3.2.2 Credit Enhancement.....	30
3.2.3 Securities Issuance.....	30
3.2.4 Parties Involved.....	31
3.3 A Platform-Driven Reverse Securitisation Approach.....	32
References.....	34
4 Background III—What Is Blockchain Technology?	35
4.1 Defining the Blockchain and Its Key Technical Aspects.....	35

4.1.1	Peer-to-Peer Value Exchange System	35
4.1.2	Group Consensus Mechanism	40
4.1.3	Private and Public Distributed Validation Networks	42
4.1.4	Smart Contracts.	43
4.2	A Distributed Ledger’s Landscape of Blockchain Technology	45
4.3	Key Features of Blockchain Technology	46
	References.	48
5	Concept—Where Are the Opportunities of Blockchain-Driven Supply Chain Finance?	51
5.1	Dealing with Supply Chain Finance Barriers and Supply Chain Processes	51
5.1.1	Compliance Requirements (KYC).	52
5.1.2	Accounting Rules and Treatments.	53
5.1.3	Issuing and Post-trade Clearing and Settlement Processing	54
5.1.4	Relevant Supply Chain Activities	61
5.2	Layers of Blockchain-Driven Supply Chains	62
5.2.1	The Order Processing Layer	64
5.2.2	The Shipping Layer	64
5.2.3	The Invoicing Layer	65
5.2.4	The Payment Layer.	66
5.3	Opportunities of Blockchain-Driven Supply Chains	67
5.3.1	Increased ‘Window of Opportunities’	67
5.3.2	Efficient Cash Settlement	70
5.3.3	Simplified Invoice Validity Check	70
5.3.4	Integration of Product and Money Flows	71
5.4	Blockchain-Driven Reverse Securitisation	72
	References.	74
6	Discussion—How Does the Full Potential of Blockchain Technology in Supply Chain Finance Look Like?	77
6.1	A Wider Scope of Supply Chain Finance Solutions	77
6.1.1	Blockchain-Based Inventory Financing	77
6.1.2	Blockchain-Based Purchase Order Financing	80
6.1.3	Blockchain-Based Receivables Financing	83
6.1.4	Sum-up of the Wider Scope	84
6.2	Limitations	85
6.3	Future Research	86
	References.	87
7	Conclusion—What Can We Learn from Blockchain-Driven Supply Chain Finance?	89



<http://www.springer.com/978-3-319-62370-2>

Supply Chain Finance and Blockchain Technology

The Case of Reverse Securitisation

Hofmann, E.; Strewe, U.M.; Bosia, N.

2018, VIII, 91 p. 26 illus., Softcover

ISBN: 978-3-319-62370-2