

CONTENTS

	<i>page</i>
List of Figures and Tables	xiii
Foreword	xvii
Introduction	1
1. Outsourcing in times of disruption	
1.1. Introduction	5
1.2. In search of a supply chain in times of disruption	17
1.2.1. Disruption from digital technologies	18
1.2.2. Disruption from social and environmental sustainability	22
1.2.3. Disruption from the Covid-19 pandemic and the war in Ukraine	24
1.3. The Gruppo Schiano case study: How shifts in customer behaviour drive innovation in the bicycle industry manufacturing paradigm and supply chain	28
1.3.1. Introduction	28
1.3.2. Highlights of the bicycle market	28
1.3.3. The history of the bicycle industry	29
1.3.4. The company profile	33
1.3.5. From mass production to mass customization	36
1.3.6. Conclusions and implications for management	42
2. Theories of the firm and implications for outsourcing	
2.1. Introduction	43
2.2. Transaction Costs Economies Theory (TCET)	44
2.3. Resource-Based Theory (RBT)	52
2.4. Competence-Based Competition Theory (CBCT)	54
2.5. Strategic Assets Theory (SAT)	55
2.6. Dynamic Capability Theory (DCT)	55

	<i>page</i>
2.7. Knowledge-Based Theory (KBT)	58
2.8. Open Innovation Theory (OIT)	60
2.9. Network Theory (NT) and Supply-Chain Network Theory (SCNT)	62
3. A review of existing models in the strategic outsourcing literature	
3.1. Outsourcing decision-making and types of outsourcing	67
3.2. Kraljic's portfolio-purchasing model	73
3.3. Quinn's model	79
3.4. Baden-Fuller et al. model	80
3.5. Sislian and Satir's model	83
3.6. McIvor's model	86
3.7. Becker and Zirpoli's model	88
4. A case study. The Boeing 787 Dreamliner programme: leveraging the capabilities of the global and collaborative supply-partners network through technological disruption in the aircraft industry	
4.1. Introduction	91
4.2. Methodology	96
4.2.1. Empirical research based on case study	96
4.2.2. The sample of companies involved in the case study	98
4.3. The perspective of the OEM: the rationale behind the launch of the B787-8 programme	105
4.3.1. Difficulties and delays in the B787-8 programme	111
4.3.2. The mitigation strategy for solving difficulties along the supply chain	115
4.4. The "small prime" contractor's perspective: Leonardo and the rationale behind the decision to join the B787-8 programme	117
4.4.1. How Leonardo exploited and explored new core competencies through the B787-8 Dreamliner programme	119
4.4.2. Leonardo's perspective on supply chain management in the B787-8 programme	123
4.5. The tier-2 perspective: Dema and the rationale behind the decision to join the B787-8 programme	128
4.5.1. A new approach to supply-chain management for the Boeing 787-9 programme	129
4.5.2. Exploiting Dema's new competencies through the B787-8 programme	131
4.6. The tier-2 Geven perspective: the rationale behind the decision to join the B787-8 programme	133

	<i>page</i>
4.7. Discussion points	134
4.8. Findings	140
4.9. Conclusions and implications for management	151
5. Proposing a conceptual decision-making model for outsourcing new product development	
5.1. Research questions, research propositions, and decision-making model	159
5.2. The Boeing 787 Dreamliner: a case of technological disruption in the aircraft industry	171
5.3. The conceptual decision-making model applied to Boeing 787-8 Dreamliner programme	175
5.4. Management implication, limits and future directions	179
Afterword – The supply chain in the aviation industry: an insider’s perspective, by Vincenzo Catuzzo	183
<i>References</i>	191