Table of Contents

P	art A. In	troductory Overview of the Thesis	VI
	List of F	igures	VII
	List of T	ables	IX
	List of A	Abbreviations	X
1	Intro	duction	1
•			
		rview and relevance of the research topic	
	1.2 Iden	tification of research deficits	6
	1.3 Ded	uction of research questions	12
	1.4 Asp	ired contribution	15
2	Conce	eptual background and underlying theories	21
	2.1 Intro	oduction to Industry 4.0 and related technological concepts	21
	2.1.1	Guiding paradigms	
	2.1.2	Technology components	25
	2.1.3	Connection to advanced manufacturing technology research	30
	2.2 Advanced manufacturing technology - performance impact, contextual, and		and
	ante	cedent factors	31
	2.2.1	Performance impact of advanced manufacturing technology	31
	2.2.2	Contextual factors of the advanced manufacturing technology	
		performance link	32
	2.2.3	Antecedents to advanced manufacturing technology adoption	33
	2.3 Underlying theories		
	2.3.1	Resource-based view and dynamic capabilities	38
	2.3.2	Efficient market hypothesis	40
	2.3.3	Adoption timing effects	41
3	Resea	rch design	45
	3.1 Data	collection and sample characteristics	45
	3.2 Mea	sure overview	50
	3.2.1	Adoption of digital technologies in manufacturing	50

	3.2.2	Firm operational and financial performance	51
	3.2.3	Financial market outcomes	52
	3.2.4	Strategic antecedents	53
	3.2.5	Adoption timing	54
	3.3 Metl	nodology	55
	3.3.1	Long- and short-term event study	55
	3.3.2	Generalized estimating equations	59
4	Sumn	nary of research papers	61
4.1 Paper I: Manufacturing Execution System Adoption: Performance Impact Contextual Drivers			
	-	er II: Market Reaction to the Adoption of Digital Technologies in sufacturing - Does Market Reaction Change over Time?	66
	•	er III: Strategic Change and Environmental Dynamism as Antecedents opting Digital Technologies in Manufacturing	
5	Impli	cations for research and practice	75
	5.1 The	oretical implications and research avenues	75
	5.2 Prac	ctical implications	82
F	Reference	S	85
P	Part B. Re	esearch Papers	103
		Manufacturing Execution System Adoption: Performance Impact and ontextual Drivers	
	_	Market Reaction to the Adoption of Digital Technologies in anufacturing - Does Market Reaction Change over Time?	147
	-	I – Strategic Change and Environmental Dynamism as Antecedents for dopting Digital Technologies in Manufacturing	