## **Brief Contents**

1	Introduction	1
2	Literature Review	21
3	Research Methodology and Research Design	69
4	Questionnaire Results	95
5	Interview Results	149
6	Types of Risk Management Practices Derived from Questionnaire	
	and Interview Scoring	205
7	Practical Implications	263
8	Conclusion	291
Ref	erences	299
App	Appendices	
	ex	

Prefac	ve	V		
Acknowledgements V				
Brief Contents				
Conte	ents	X		
List o	f Figures	XV		
List o	f Tables	XVI		
1	Introduction	1		
1.1	Background: Risk Management in Germany	1		
1.1.1	Risk Management Deficiencies in Small to Medium-sized			
	Enterprises	1		
1.1.2	Legal Regulations Concerning Risk Management, Basel II	2		
1.2	Classification of Risk and Risk Management	5		
1.3	Definition of Small to Medium-sized Enterprises (SMEs)	10		
1.4	Research Aim and Objectives	14		
1.5	Outline of the Thesis	16		
2	Literature Review	21		
2.1	Holistic Risk Management Approach	21		
2.2	Management Behaviour	24		
2.3	Business Planning	32		
2.4	Balanced Scorecard and Similar Instruments	38		
2.5	Risk Management	48		
2.5.1	Risk Management Process	51		
2.5.2	Risk Management Organization	57		
2.5.3	Project Risk Management	59		
2.6	Business Strategy Typologies and Risk Behaviour	63		
2.7	Conclusion	67		
3	Research Methodology and Research Design	69		
3.1	Research Approach	69		
3.2	Research Questions	71		
3.3	Design of Questionnaire.	74		
3.3.1	Development of Questions	74		
3.3.2	Testing and Piloting the Questionnaire	76		
	B	, 0		

3.3.3	The Sample	77
3.3.4	Response and Bias	8
3.4	Design of Research Interviews	84
3.4.1	Development of Interview Issues	84
3.4.2	Testing and Piloting the Interviews	87
3.4.3	Selection of Interviewees	87
3.4.4	Methods of Analysis of Interview Results	88
3.5	Scoring Approaches and Risk Management Typology	89
3.6	Statistical Evaluations	91
4	Questionnaire Results	95
4.1	Introduction	95
4.2	Univariate Analysis	95
4.2.1	Basic Enterprise Data	95
4.2.2	Business Planning as a Base for Risk Management	98
4.2.3	Early Warning Systems for Risk Identification	99
4.3	Bivariate Analysis	99
4.3.1	Business Planning	100
4.3.2	Balanced Scorecard and Similar Instruments	103
4.3.3	Risk Management	106
	4.3.3.1 Risk Management Process	106
	4.3.3.2 Organization of Risk Management	112
	4.3.3.3 Project Risk Management	121
4.4	Scoring of Questionnaire Results	126
4.4.1	Construction of Scoring Variables	126
4.4.2	Analysis of Scoring Variables	132
4.5	Multivariate Analysis	135
4.5.1	Factor Analysis	135
	4.5.1.1 Factor Analysis 1: General Risk Management	
	(11 risk items)	136
	4.5.1.2 Factor Analysis 2: Project Risk Management	
	(17 risk items)	139
4.5.2	Cluster Analysis	141
	4.5.2.1 Cluster Analysis 1: General Risk Management (N = 266)	142
	4.5.2.2 Cluster Analysis 2: Project Risk Management (N = 201).	144
	4.5.2.3 Cluster Solutions and Risk Management Scoring	146

5	Interview Results	149
5.1	Introduction	149
5.2	Analysis of Quantitative Results	149
5.2.1	Basic Enterprise Data	150
5.2.2	Uncertainty in the Business Environment	152
5.2.3	Business Planning	155
5.2.4	Balanced Scorecard and Similar Instruments	158
5.2.5	Risk Management	164
	5.2.5.1 Risk Management Process	164
	5.2.5.2 Organization of Risk Management	172
	5.2.5.3 Project Risk Management	179
5.3	Scoring of Interview Results	185
5.3.1	Construction of Scoring Variables	185
5.3.2	Analysis of Scoring Variables	188
5.3.3	Comparison of Questionnaire and Interview Scoring	195
5.4	Management Behaviour and Risk Management	196
6	Types of Risk Management Practices Derived from Questionnaire	
	and Interview Scoring	205
6.1	Types of Risk Management Practices	205
6.1.1	Typology Approaches for Organizational Performance	206
6.1.2	Reactor	208
6.1.3.	Defender/Prospector	212
6.1.4	Analyser	216
6.1.5	Summary of Types Identified by Scoring Patterns	220
6.1.6	Types Versus Demographic and Uncertainty Variables	231
6.2	Type Description of Questionnaire and Interview Examples	244
6.2.1	Reactor	244
6.2.2	Defender/Prospector	249
6.2.3	Analyser	256
_		
7	Practical Implications	263
7.1	Special Implications for the Identified Types of Risk Management	
	Practices	263
7.1.1	Reactor	263
7.1.2	Defender/Prospector	267
7.1.3	Analyser	269
7.2	General Implications for the Development of Risk Management	
	Systems	270

7.2.1	Business Planning and Quality Management as a Base for Risk	
	Management	271
7.2.2	Consolidation of Risks to Estimate the Entire Risk Exposure	272
7.2.3	Organizational Aspects of Risk Management	273
7.2.4	Software Support for Risk Management	274
7.2.5	Business Management Knowledge	276
7.3	Holistic Risk Management Framework	277
7.3.1	Components of a Holistic Risk Management Framework	278
7.3.2	Recommendations for the Process of Implementation	285
8	Conclusion	291
8.1	Summary of Research Findings	291
8.1.1	Questionnaire and Interview Results	291
8.1.2	Scoring and Typology	293
8.2	Limitations and Further Research	295
8.2.1	Holistic Risk Management and Management Behaviour	295
8.2.2	Scoring Approach and Risk Management Typology	296
8.2.3	Research Design	297
Refere	ences	299
Apper	ndices	315
A	Studies on Business Planning and Risk Management Practices in	
	Large Companies	317
В	Studies on Business Planning and Risk Management Practices in	
	Small to Medium-sized Companies	321
C	Questionnaire Covering Letter	323
D	Questionnaire Layout	325
E	Questionnaire Glossary	333
F	Questionnaire Results Versus Company Size	335
G	Questionnaire Results Versus Demographic Variables:	
	Chi-Square Test	357
H	Questionnaire Results Versus Data Waves:	
	Chi-Square Test	381
I	Researcher's Interview Schedule	389
J	Interviewee's Guideline	397
K	Demographic Data of Interviewed Companies	399
L	Quantitative Interview Issues Versus Company Size	403
Index		433