Contents

Index of figures .... **XVII**

Index of tables .... **XIX**

Index of abbreviations .... **XXIII**

Index of symbols .... **XXVII**

1 Introduction **1**

1.1 Motivation and research questions 1

1.2 Outline of the study 5

1.3 Scientific positioning 7

2 Fundamentals on cost accounting in German MNCs **10**

2.1 Characterization of multinational companies 10

2.2 Objectives of cost accounting 11

2.3 Design of cost accounting systems 15

2.3.1 Systematization and complexity of cost accounting 15

2.3.2 Cost type accounting 18

2.3.3 Cost center accounting 21

2.3.4 Cost object accounting 23

2.3.5 Summary 26

2.4 Standardization of cost accounting systems 27

2.4.1 Conceptualization 27

2.4.1.1 Definition of cost accounting standardization 27

2.4.1.2 Process of cost accounting standardization 31

2.4.1.3 Degree of cost accounting standardization 33

2.4.1.4 Summary 35

2.4.2 Advantages and disadvantages of standardization 36

2.4.2.1 Advantages of cost accounting standardization 36

2.4.2.2 Disadvantages of cost accounting standardization 38

2.4.2.3 Summary 40

2.5 Performance of cost accounting systems 41

3 State of research 43
3.1 Design of cost accounting systems 44
3.1.1 Case study research 44
3.1.2 Survey research 46
3.1.3 Mixed methods research 53
3.2 Standardization of management accounting instruments 54
3.2.1 Case study research 54
3.2.3 Survey research 57
3.3 Summary and implications 58
4 Theory and hypotheses development 60
4.1 Theoretical foundation 60
4.1.1 Principal-agent theory 60
4.1.2 Contingency theory 61
4.2 Theoretical framework and basic hypotheses 64
5 Research design 69
5.1 Qualitative case study research 70
5.2 Quantitative survey research 73
5.3 Mixed methods approach 75
5.4 Summary 79
6 Qualitative analysis 80
6.1 Case company selection and description 80
6.1.1 Case selection criteria 80
6.1.2 Description of cases 81
6.2 Data collection and analysis 84
6.2.1 Data collection 84
6.2.2 Characteristics of interviews 88
6.2.3 Qualitative content analysis 89
6.3 Empirical results 91
6.3.1 Context of cost accounting in German MNCs 91
6.3.1.1 Multinational environment and philosophy 91
6.3.1.2 Organizational structure and benchmarking 94
6.3.1.3 ERP system and databases for cost accounting 96

6.3.1.4 Role of accountants and cost accounting objectives 98
6.3.1.5 Summary and discussion 100
6.3.2 Design of cost accounting systems 102
6.3.2.1 Systematization of cost accounting 102
6.3.2.2 Cost type accounting 104
6.3.2.3 Cost center accounting 106
6.3.2.4 Cost object accounting 109
6.3.2.5 Cost accounting complexity and national particularities ... 112
6.3.2.6 Summary and discussion 117
6.3.3 Standardization of cost accounting systems 120
6.3.3.1 Comprehension and measurability of standardization 120
6.3.3.2 Degree and process of standardization 122
6.3.3.3 Advantages and disadvantages of standardization 125
6.3.3.4 Implementation process and acceptance 127
6.3.3.5 Summary and discussion 132
6.4 Implications and hypotheses refinement 134
6.4.1 Implications for the quantitative analysis 134
6.4.2 Hypotheses refinement 135
6.4.2.1 Internal context 135
6.4.2.2 External context 137
6.4.2.3 Group context 138
6.4.2.4 Performance of cost accounting systems 142

7 Quantitative analysis 145
7.1 Sample selection, questionnaire and data collection 145
7.1.1 Sampling of subunits 145
7.1.2 Outline of the questionnaire 146
7.1.3 Data collection and response rates 148
7.2 Construct measurement 151
7.2.1 Formative measurement 151
7.2.2 Operationalization of constructs 152
7.2.2.1 Cost accounting complexity 152
7.2.2.2 Cost accounting standardization 154

7.2.2.3 Cost accounting performance 159
7.2.3 Operationalization of context factors 160
7.2.4 Operationalization of controls 163
7.3 Methods of data analysis 164
7.3.1 Descriptive statistics and mean comparisons 164
7.3.2 Multivariate regression analysis 167
7.4 Empirical results 168
7.4.1 Cross-case analysis 168
7.4.1.1 Complexity of cost accounting systems 168
7.4.1.1.1 Cost type accounting 168
7.4.1.1.2 Cost center accounting 172
7.4.1.1.3 Cost object accounting 178
7.4.1.1.4 Summary and score aggregation 185
7.4.1.2 Standardization of cost accounting systems 186
7.4.1.2.1 Formal standardization 186
7.4.1.2.2 Factual standardization 193
7.4.1.2.3 Summary and score aggregation 200
7.4.1.3 Performance of cost accounting systems 201
7.4.2 Cross-national analysis 202
7.4.2.1 Complexity of cost accounting systems 202
7.4.2.2 Standardization of cost accounting systems 205
7.4.2.3 Performance of cost accounting systems 207
7.4.3 Explicative analysis 209
7.4.3.1 Univariate and bivariate analysis 209
7.4.3.1.1 Evidence on the independent variables 209
7.4.3.1.2 Correlation analysis 220
7.4.3.2 Regression analysis 224
7.4.3.2.1 Complexity of cost accounting systems 224
7.4.3.2.2 Standardization of cost accounting systems 227
7.4.3.2.3 Performance of cost accounting systems 230
7.4.4 Summary and discussion 232

8 Conclusions **236**
8.1 Main findings and implications 236
8.2 Limitations 242
8.3 Avenues for future research 244
Appendices **247**
References **255**