

TABLE OF CONTENT

CONTENT OVERVIEW	I
TABLE OF CONTENT	II
LIST OF FIGURES	VII
LIST OF TABLES	X
ABSTRACT.....	XIII
REZUMAT	XIV
KURZFASSUNG	XV
ACKNOWLEDGEMENT	XVI
1 INTRODUCTION	1
1.1 Research motivation.....	1
1.1.1 Globalisation: a world without economic borders	2
1.1.2 Digitalisation: conversion to digital economy	5
1.1.3 Digital economy: data-driven transformation of corporates	10
1.1.3.1 At large: the level of all companies	10
1.1.3.2 On a small scale: the level of an individual corporate	12
1.2 Problem statement of research	14
1.2.1 Research problem	14
1.2.2 Research purpose	14
1.2.3 Research objectives	14
1.3 Assumptions underlying the study	15
1.3.1 Delimitation of the object of investigation	15
1.3.2 Limiting the scope of the investigation	16
1.3.3 Delimitation of research heuristics	16
1.3.3.1 Research questions.....	16
1.3.3.2 Auxiliary tools	17
1.4 Thesis structure	19
2 APPROACH AND DESIGN OF THE STUDY	22
2.1 Idea behind this study	23
2.2 Research philosophy	24
2.3 Approach to theory development	26
2.4 Methodological choice.....	27
2.4.1 Research strategy	27
2.4.2 Research type.....	28
2.5 Research strategy and design	29
2.6 Time horizon.....	30
2.7 Techniques and procedures	31
2.7.1 Step 1: Review	31
2.7.2 Step 2: Expert interview	34

2.7.3 Step 3: Online-Survey.....	35
2.8 Challenges for research and how to overcome them.....	36
2.9 Preliminary results	38
3 CURRENT STATUS OF THE TOPIC	39
3.1 Preliminary insights	39
3.2 Review design.....	40
3.3 Data collection.....	42
3.4 Analytical methods	45
3.5 Scientometric analysis.....	46
3.5.1 Descriptive overview	46
3.5.2 Analysis of sources	47
3.5.3 Analysis of the authors	48
3.5.4 Analysis of document structures.....	51
3.5.5 Preliminary insights.....	56
3.6 Challenges of data governance.....	57
3.6.1 Mikro level: the objekt data.....	58
3.6.2 Meso level: Organisation.....	60
3.6.3 Makro level: corporate environment (industry, sector, society)	62
3.6.4 Preliminary insights.....	63
3.7 Task structure of data governance.....	64
3.7.1 Definition(s).....	64
3.7.2 Components.....	67
3.7.3 Conceptual model.....	69
3.7.4 Preconditions	70
3.7.5 Target catalogue	71
3.7.6 Task object.....	72
3.7.7 Solution methods	78
3.7.8 Resources.....	81
3.7.9 Postconditions.....	85
3.7.10 Preliminary insights.....	87
3.8 Expectations for investments in data governance	88
3.9 Success factors of data governance.....	93
3.10 Hypotheses on internal data governance.....	99
3.11 Path model for internal data governance.....	101
3.12 Preliminary results	104
4 CORRELATION BETWEEN DATA GOVERNANCE AND SUCCESS	106
4.1 Preliminary insights	106
4.2 An initial structural model	107
4.3 Terminological basics	110

4.3.1	System theory, systemic thinking, and information systems	110
4.3.2	Success of information systems	112
4.3.2.1	The concept	112
4.3.2.2	Effects on success	114
4.3.3	Models for measuring the success of information systems	116
4.3.3.1	Theory of reasoned action and Theory of Planned Behavior	117
4.3.3.2	Technology Acceptance Model	119
4.3.3.3	Unified Theory of Acceptance and Usage of Technology	121
4.3.3.4	Initial Trust Model	122
4.3.3.5	Innovation Diffusion Theory	124
4.3.3.6	Task Technology Fit	126
4.3.3.7	DeLone and McLean Information System Success Model	128
4.3.3.8	Seddon's Model of Information System Success	129
4.3.3.9	IS-Impact Measurement Model	131
4.3.3.10	Preliminary insights	132
4.4	Hypotheses on correlation between data governance and success	133
4.5	Specification of the path model	137
4.6	Preliminary results	139
5	CONFIGURATION OF THE EMPIRICAL STUDY	140
5.1	Preliminary insights	140
5.2	Study profile	141
5.3	Description of the data set	145
5.3.1	Scope of the data basis	145
5.3.2	Characteristics of business organisations	146
5.3.3	Goodness and representativeness of the sample	149
5.3.4	Initial statements on the subject of the investigation	151
5.4	Structural equation modeling: basics	155
5.5	Construct: a brief introduction	157
5.6	Construct conceptualization	159
5.7	Construct operationalization	160
5.8	Selection of the analysis instrument	162
5.9	Evaluation of model goodness	165
5.9.1	Construct analysis	166
5.9.1.1	Measurement models at first-order	166
5.9.1.1.1	Reflective measurement models	166
5.9.1.1.2	Formative measurement models	171
5.9.1.2	Measurement models at higher-order	173
5.9.2	Structure model analysis	174
5.10	Preliminary results	177

6	EMPIRICAL ANALYSIS OF INTERNAL DATA GOVERNANCE	179
6.1	Preliminary insights	179
6.2	Construct conceptualization and operationalization.....	180
6.2.1	Strategy as data governance key driver	180
6.2.2	Guidelines as data governance foundation	182
6.2.3	Processes as data governance operational core.....	184
6.2.4	Organization as data governance mediator	185
6.2.5	Controlling as data governance feedback-mechanism.....	187
6.2.6	Communication as data governance link	188
6.2.7	Change Management as data governance companion	190
6.2.8	Internal data governance as result.....	191
6.2.9	Discriminant validity of all constructs.....	193
6.3	Examination of the overall model	194
6.3.1	Structure model.....	194
6.3.2	Single constructs.....	198
6.3.3	Investigation of mediating effects.....	200
6.4	Status quo in data governance.....	202
6.4.1	Strategy as data governance key driver	202
6.4.2	Guidelines as data governance foundation	203
6.4.3	Processes as data governance operational core.....	205
6.4.4	Organization as data governance mediator	207
6.4.5	Controlling as data governance feedback-mechanism.....	209
6.4.6	Communication as data governance link	211
6.4.7	Change Management as data governance companion	212
6.4.8	Internal data governance as result.....	214
6.4.9	Status of data governance initiatives.....	215
6.4.10	Implemented data governance approach.....	217
6.5	Preliminary results	217
7	EMPIRICAL ANALYSIS OF DATA GOVERNANCE IMPACT	220
7.1	Preliminary insights	220
7.2	Construct conceptualization and operationalization.....	220
7.2.1	Data governance capabilities	220
7.2.1.1	Internal data governance	220
7.2.1.2	Data management as the operational part of data governance	221
7.2.2	Data capabilities	223
7.2.2.1	Compliance as rule conformity in data	223
7.2.2.2	Quality as data-excellence	224
7.2.2.3	Transparency as openness and traceability of data	226
7.2.3	Psychological effects	228

TABLE OF CONTENT

7.2.3.1	Satisfaction as acceptance of data.....	228
7.2.3.2	Trust as credibility in data.....	230
7.2.4	Behavioral effects.....	234
7.2.4.1	Intensity of Data utilization.....	234
7.2.5	Success effects.....	236
7.2.5.1	Process optimization.....	236
7.2.5.2	Decision-making efficiency.....	239
7.2.5.3	Technology-Adaption.....	242
7.2.6	Discriminant validity of all constructs.....	244
7.3	Examination of the overall model.....	245
7.3.1	Structure model.....	245
7.3.2	Single constructs.....	252
7.3.3	Investigation of mediating effects.....	254
7.4	Preliminary results.....	255
8	CONCLUSION.....	258
8.1	Key findings.....	258
8.2	Implications for practice.....	260
8.3	Research contribution.....	261
8.4	Future research.....	262
	REFERENCES.....	264
	APPENDIX.....	296
	Appendix 1: Curriculum vitae.....	296
	Appendix 2: Research contributions.....	297
	2025 (4).....	297
	2024 (13).....	297
	2023 (8).....	298
	2022 (4).....	299