Contents

Forewords xiii
Preface xvii
Acknowledgments xxi

CHAPTER 1 Prologue: An executive overview 1
The situation 1
Concepts 4

CHAPTER 2 Introduction 7
Introduction 7
Essential questions 13

CHAPTER 3 Data literacy and concepts 15
The importance of concepts 15
Data is an asset 16
Data governance and governance 16
Data management 18
The governance "V" 21
Solutions 24
Other terms 26
Some final core concepts 28
Evolution vs revolution 29
Things will change 30
Summary 30
Essential questions 31

CHAPTER 4 Overview: A day in the life of a data governance program and its capabilities 33
What does it look like? 33
The scope of data governance and data management 35
Business model 35
Content 37
Development methods 38
Federation 38
Elements of data governance programs 40
Principles 44
Policies 45
Metrics 45
The critical success factors for data governance 47

Summary 48
Essential questions 49

CHAPTER 5 The data governance business case 51
The business case 52
Objectives of the business case for data governance 53
Components of the business case 54
The big picture (vision) 55
Program risks 55
Business alignment 55
Costs of data quality issues 55
Costs of missed opportunities 56
Data debt 56
Obstacles, impacts, and changes 56
Presentation of the case 56
The process to build the business case 57
Fully understand business direction 57
Identify possible opportunities 57
Identify usage opportunities 57
Define business benefits 57
Confirm business benefits 57
Quantify costs 58
Prepare the business case documentation 58
Approach considerations 58
Summary 59
Essential questions 60

CHAPTER 6 Overview of data governance development and deployment 61
Types of approaches 63
The data governance delivery framework 64
Process overview 64
Engagement 66
Strategy 70
Architecture and design 73
Implementation 76
Operation and changes 78
Summary 79
Core success factors 80
Essential questions 80

CHAPTER 7 Engagement 81
Overview 82
Initiation 84

Obtain program approval 84
Develop DG rollout team structure 84
Definition 86
Define DG for your organization 87
Identify business units (subject to DG) 88
Identify business capabilities that need data governance (and don't have it) 89
Scope 89
Define scope and constraints with the initial plan for DG 90
Approve scope and constraints 90
Assessment 91
Information maturity 92
Change capacity 96
Data environment 97
Vision and plan 99
Identify obvious business benefits and metrics 100
Describe new capabilities 102
Draft preliminary DG requirements 105
Develop representations of future DG 107
Complete data governance start-up plan 109
Engagement case study—Rocky Health 110
Rocky Health vision 110
Rocky Regional Energy Coop case study introduction 112
Engagement case study—Rocky Regional Energy Coop 113
Summary 114
Essential questions 114

CHAPTER 8 Strategy 115
Overview 115
Alignment 117
Identify business needs 117
Align data governance with business needs 118
Organization value 123
Determine core data principles 124
Identify DG-enabled opportunities 130
Develop business value of DG 131
Summary 132
Strategic requirements 132
Review existing business cases 133
Determine base line policy requirements 133
Identify obvious capabilities 135
Identify use cases to show value (as required) 135

Strategy case study—Rocky Health 138
Strategy case study—Rocky regional electric coop 138
Summary 139
Essential questions 140

CHAPTER 9 Architecture and design 141
Overview 141
Capabilities 144
Identify DG capabilities 144
Align and prioritize capabilities with business needs 148
Identify tools and technology supportive of DM and DG capabilities 148
Operating frameworks 158
Identify/refine DG processes 159
Identify accountability and ownership 163
Design DG operating framework 168
Design minimum sustainable operating model 170
Engagement and workflow 174
Design required engagement models 174
Complete roles and responsibility identifications 175
Socialize operating framework, engagement models, and workflow 181
Architecture and design case study—Rocky Health 182
Architecture and design case study—Rocky regional electric coop 183
Summary 185
Essential questions 185

CHAPTER 10 Implementation 187
Overview 187
Roadmap 189
Align DG with current efforts 189
Assign DG to planned efforts 190
Define DG deployment increments 192
Develop short- and long-term deployment plans 195
Sustaining plan 195
Define sustaining requirements 196
Define organization behavior targets 199
Develop change management plan 202
Metrics 205
Define metrics for effectiveness 205
Define metrics for efficiency 209
Define metric collection and reporting 210
Implementation—Rocky Health 211
Implementation—Rocky Regional Electric Coop 211
Summary 213
Essential questions 214

CHAPTER 11 Operation and change **215**
Overview 215
Deployment 217
Develop DG roll-out plan 217
Roll-out DG framework 218
Implement operational activity 219
Implement operational support activity 219
Implement DG technology solutions 219
Operation 219
Manage DG interactions with projects 219
Execute DG processes and activities 220
Complete and publish charters, policies, and standards 220
Monitor attendance and engagement 220
Ensure technology is properly integrated into DG operation 220
Interact with data management activities 220
Measure 221
Implement metric collection and reporting processes 221
Track distribution and use of metrics 221
Track use and issues around technology 221
Sustaining activity 221
Verify leader alignment 222
Monitor sponsor effectiveness 223
Monitor communication and training 225
Transition DG to business 225
Manage resistance 225
Operation and changes—Rocky health 229
Operation and changes—Rocky regional electric coop 229
Summary 230
Essential questions 231

CHAPTER 12 Final items and summary **233**
Concepts 235
The warning signs and useful tips 237
The value of data governance 237
Data monetization 238
The critical success factors 238
Some additional final thoughts 238
Elevator speech 239
Conclusion 239

Appendix 1: Work areas, activities, and tasks 241
Appendix 2: Change capacity assessment 253
Appendix 3: Data governance charter template 257

Appendix 4: Data governance orientation and on-going knowledge transfer template 261
Appendix 5: Data governance capabilities and functions 263
Appendix 6: Stakeholder analysis 275
Appendix 7: Leadership alignment assessment 277
Appendix 8: Communications plan 279
Appendix 9: Training plan 283
Appendix 10: Post-roll-out checklist 287
Appendix 11: Sponsor guidelines 289
Appendix 12: Leadership coaching 291
Appendix 13: Resistance plan template 293
Appendix 14: Guiding principles to policies alignment 295
Appendix 15: Data governance program start-up plan 297
Appendix 16: Sample data governance metrics 299
Appendix 17: Phase activity task table from first edition 301
Appendix 18: Executive level sample roadmap 319

Index 321