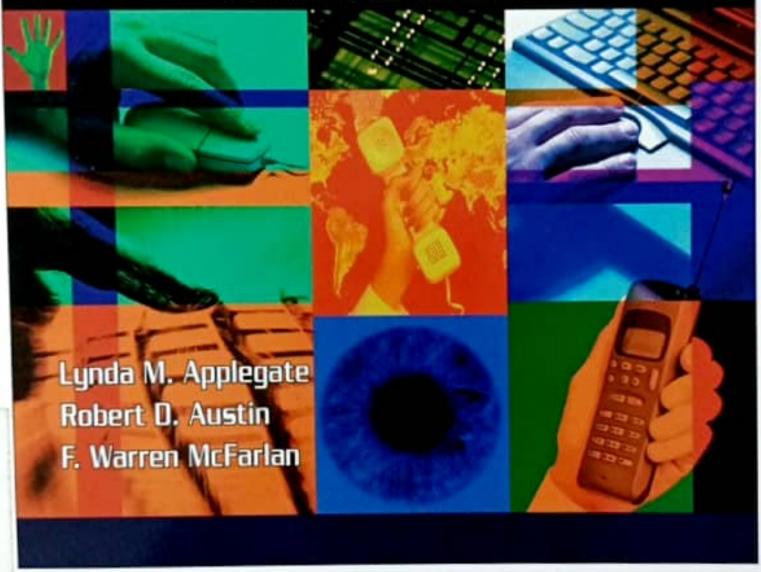
Corporate Information Strategy and Management

Seventh Edition

TEXT AND CASES



MCGRAW-HILL INTERNATIONAL EDITION

Contents

Preface vi	Chapter 3 Extending the Enterprise 79
Introduction: Challenges of Managing in a Networked World 1 Case I-1: Li & Fung (A): Internet Issues 3 Appendix A 19	Understanding Business Networks 80 Framing Decisions Concerning Network Differentiation and Unit Groupings 82 Framing Decisions Concerning Governance Interdependencies 84
MODULE ONE BUSINESS IMPACTS 21 Chapter 1	Framing Decisions Concerning Network Ownership 86 Designing Hybrid Governance Models 88 NASDAQ Securities Exchange: A Collaborate Community in Action 90
IT and Strategy 25	Laying the Foundation 91 From Flawless Execution to Innovation 92
Understanding the Forces that Shape Strategy 26 Conducting a Strategy Audit 27 Strategic Shifts: Evolution and Revolution 32 Assessing IT Impact and Alignment 34 The Strategic Grid 35 The Strategic Alignment Model 38 Opportunities and Risks 40 The Search for Opportunities 40 Strategic Risk 48 Summary 55 Chapter 2	Role of IT in Operating and Governing the NASDAQ Securities Exchange 93 Linking IT to the Evolution of Partnerships a Trust 94 Building Collaborative Community: Lessons from the Field 95 Key Insight: Hybrid Forms of Governance An Emerging That Unite Hierarchy, Market, and Partnership 96 Key Insight: A Network Orchestrator Role is Emerging to Coordinate Inter-Firm Interdependencies within Business Ecosystem Like NASDAQ and GHX 97
IT and Organization 57	Key Insight: Network Orchestrators Design
The Need for New Capabilities 58 Is History Repeating Itself? 60 Learning from Mistakes 62 Information, Organization, and Control 64 Organizing for Innovation and Execution 64 Organizing for Accountability and Collaboration 68	Organizational Solutions That Reflect the Interests of All Parties 97 Key Insight: Collaborative Community and Trust Co-evolve Over Time 98 Summary 99 Appendix 3A Emerging Network Business Models 100
Appendix 2A Characteristics of the Hierarchy Fortunated	Chapter 4
Characteristics of the Hierarchy, Entrepreneurial, and Networked Organization 72	Making the Case for IT 115
Summary 77	Building the Business Case for IT 118

viii

Driving Profitable Growth 125 Achieving Proprietary Advantage 126 IBM's Decade of Transformation: A Case Study in Turnaround Leadership and Delivering IT-Enabled Business Value 126 Nicholas Carr Revisited 134 Summary 135	Managing Legacies 302 The Future of Internetworking Infrastructure 302 Summary 303 Chapter 6 Assuring Reliable and Secure IT Services 305
Case 1-1: Charles Schwab in 2002 137	Availability Math 307 The Availability of Components in Series 307
Case 1-2: Learning from LeapFrog 163	High-Availability Facilities 310 Uninterruptible Electric Power Delivery 310 Physical Security 311 Climate Control and Fire Suppression 311 Network Connectivity 311 N+1 and N+N Redundancy 312 Securing Infrastructure against Malicious Threats 314 Classification of Threats 315 Defensive Measures 319 A Security Management Framework 324 Risk Management of Availability and Security 325 Incident Management and Disaster Recovery 327 Managing Incidents before They
Case 1-3: Wyndham International: Fostering High-Touch with High-Tech 192	
Case 1-4: Global Healthcare Exchange 220	
Reading 1-5: IT Doesn't Matter 248	
MODULE TWO MANAGING INFRASTRUCTURE AND OPERATIONS 277	
Chapter 5 Understanding Internetworking Infrastructure 279	
The Drivers of Change: Better Chips, Better Pipes 281 The Basic Components of Internetworking Infrastructures 285	Occur 327 Managing during an Incident 328 Managing after an Incident 328 Summary 329
The Technological Elements of Networks 286 The Technological Elements of Processing Systems 289 The Technological Elements of Facilities 292	Chapter 7 Managing Diverse IT Infrastructures 331
Operational Characteristics of Internetworks 294 The Rise of Internetworking: Business Implications 296	New Service Models 333 On Demand, Utility, and Grid Computing Models 336 Managing Risk through Incremental
The Emergence of Real-Time Infrastructures 297 Broader Exposure to Operational Threats 299	Outsourcing 338 An Incremental Outsourcing Example: Hosting 340

Managing Relationships with Service Providers 342 Selecting Service Partners 343 Relationship Management 345 Managing Legacies 348 Managing IT Infrastructure Assets 351 Summary 352	Growth in the IT Services Industry 424 Users' Desire to Control Their Own Destiny 42 Fit with the Organization 425 Drivers toward a Centralized IT Structure 425 Staff Professionalism 425 Standard Setting and Ensuring System Maintainability 426
Case 2-1: CareGroup 353	Envisioning Possibilities and Determining
Case 2-2: The iPremier Company: Denial of Service Attack (A) 369	Feasibility 427 Corporate Data Management 427 Cost Estimation and Analysis 428
Case 2-3: Ford Motor Company: Supply Chain Strategy 377	Coordination and Location of IT Policy 429 IT Responsibilities 429 User Responsibilities 431
Reading 2-4: The Power of Virtual Integration: An Interview with Dell Computer's Michael Dell 384	General Management Support and Policy Overview 431 IT Leadership and the Management of Budgets 43; Summary 434
Case 2-5: Postgirot Bank and Provment AB: Managing the Cost of IT Operations 395	Chapter 9 Managing IT Outsourcing 437
MODULE THREE LEADERSHIP ISSUES 417 Chapter 8 Organizing and Leading the IT Function 419	Why Outsourcing Alliances Are So Difficult 438 Outsourcing in Retrospect 439 Outsourcing in the Twenty-First Century 439 Acceptance of Strategic Alliances 440 IT's Changing Environment 440 What Drives Outsourcing? 441 General Managers' Concerns about Costs and Quality 442 Breakdown in IT Performance 442
Organizational Issues in the Control of IT Activities 419 1. From Centralized, IT-Driven Innovation to Decentralized, User-Driven Innovation 421 2. User-Driven Innovation over IT Department Protests 421 3. From Decentralized, User-Driven Innovation to Centralized IT Management 421 4. From Decentralized, User-Driven Innovation to Unexpected Centralized Innovation 422 Implications and Conclusions 423 Drivers toward User Dominance 423 Pent-Up User Demand 423 The Need for Staff Flexibility 424	Intense Vendor Pressures 443 Simplified General Management Agenda 443 Financial Factors 443 Corporate Culture 444 Eliminating an Internal Irritant 444 Other Factors 444 When to Outsource 445 Position on the Strategic Grid 445 Development Portfolio 446 Organizational Learning 446 A Firm's Position in the Market 447 Current IT Organization 447 Structuring the Alliance 447 Contract Flexibility 447 Standards and Control 447

Areas to Outsource 448

Cost Savings 448

Supplier Stability and Quality 449

Management Fit 449

Conversion Problems 450

Managing the Alliance 450

The CIO Function 450

Performance Measurement 451

Mix and Coordination of Tasks 451

Customer-Vendor Interface 452

Summary 452

Chapter 10 A Portfolio Approach to Managing IT Projects 453

Sources of Implementation Risk 454
Project Categories and Degrees of Risk 455
Assessing Risk for Individual Projects 456
Managing the "Dip" during Project
Implementation 457
Portfolio Risk 459
Project Management: A Contingency Approach 461
Management Tools 461
Influences on Tool Selection 462
Relative Contribution of Management Tools 466

Relative Contribution of Management Tools

Emergence of Adaptive Project Management
Methods 466

Software Development Life Cycles 466
Adaptive Methodologies 468
Adaptive Methods and Change
Management 469

Process Consistency and Agility in Project Management 470

Summary 471

Case 3-1: Cathay Pacific: Doing More with Less 473

Case 3-2: Royal Caribbean Cruises Ltd. 495

Case 3-3: Rakuten 521

Case 3-4: Telecomunicacoes de São Paulo SA (Telesp) 541

Case 3-5: Outsourcing IT: The Global Landscape in 2004 577

CONCLUSION

The Challenges of Managing in a Network Economy Revisited 591

Case C-1: UCB: Managing Information for Globalization and Innovation (A) (Abridged) 594

Case C-2: Enabling Business Strategy with IT at the World Bank 612

Annotated Bibliography 637

Index 641