

# Case Study Research

## Design and Methods

Robert K. Yin  
*COSMOS Corporation*



Los Angeles | London | New Delhi  
Singapore | Washington DC

# DETAILED CONTENTS

<b>About the Author</b>	<b>xv</b>
<b>Foreword</b>	<b>xvii</b>
<i>Donald T. Campbell</i>	
<b>Preface</b>	<b>xix</b>
Rising Recognition for Case Study Research	xix
Distinctiveness of This Book	xxi
Using This Book	xxii
New Features in This Edition	xxiii
<i>Added breadth and depth</i>	xxiii
<i>Additional changes in the fifth edition</i>	xxiv
Acknowledgments	xxvi
Notes	xxvii
<b>1. Getting Started: How to Know Whether and When to Use the Case Study as a Research Method</b>	<b>3</b>
The Case Study as a Research Method	3
Doing Case Study Research	3
Salience of Case Study Research in Different Fields	4
Comparing the Case Study with Other Research Methods in the Social Sciences	5
Relationships among the Methods: Not Hierarchical	6
When to Use Each Method	9
<i>Types of research questions</i>	10
<i>Extent of control over behavioral events and degree of focus on contemporary as opposed to entirely historical events</i>	12
<i>A special situation in evaluation research</i>	13
<i>Summary</i>	14
Variations in Case Studies, but a Common Definition	15
Definition of the Case Study as a Research Method	15
<i>Twofold definition of case study</i>	16
<i>Applicability of different epistemological orientations</i>	17

Variations in Case Studies as a Research Method	18
Addressing Traditional Concerns about Case Study Research	19
<i>Rigorous enough?</i>	19
<i>Confusion with teaching cases?</i>	20
<i>Generalizing from case studies?</i>	20
<i>Unmanageable level of effort?</i>	21
<i>Comparative advantage?</i>	21
<i>Summary</i>	22
Summary	23
Notes to Chapter 1	23
<b>Tutorial 1.1: More on Defining the "Case Study"</b>	<b>24</b>
<b>2. Designing Case Studies: Identifying Your Case(s) and Establishing the Logic of Your Case Study</b>	<b>27</b>
General Approach to Designing Case Studies	27
Definition of Research Designs	28
Components of Research Designs	29
<i>Study questions</i>	29
<i>Study propositions</i>	30
<i>Unit of analysis—the "case"</i>	31
<i>Linking data to propositions</i>	35
<i>Criteria for interpreting a case study's findings</i>	36
<i>Summary</i>	36
The Role of Theory or Theoretical Propositions in Research Designs	37
Theory Development	37
Illustrative Topics for Theories	39
Use of Theory to Generalize from Case Studies	40
Summary	44
Criteria for Judging the Quality of Research Designs	45
Construct Validity	46
Internal Validity	47
External Validity	48
Reliability	48
Summary	49
Case Study Research Designs	49
What Are the Potential Single-Case Designs (Types 1 and 2)?	51
<i>Five rationales for single-case designs</i>	51
<i>Holistic versus embedded case studies</i>	53
<i>Summary</i>	56

What Are the Potential Multiple-Case Designs (Types 3 and 4)?	56
<i>Multiple- versus single-case designs</i>	56
<i>Replication, not sampling logic, for     multiple-case studies</i>	57
<i>Rationale for multiple-case designs</i>	61
<i>Multiple-case studies: Holistic or embedded</i>	62
<i>Summary</i>	63
Modest Advice in Selecting Case Study Designs	63
Single- or Multiple-Case Designs?	63
Closed or Adaptive Designs?	65
Mixed Methods Designs: Mixing Case Studies with Other Methods?	65
Notes to Chapter 2	67
<b>Tutorial 2.1: More on Defining "Analytic Generalization"</b>	<b>68</b>
<b>3. Preparing to Collect Case Study Evidence: What You Need to Do before Starting to Collect Case Study Data</b>	<b>71</b>
The Case Study Researcher: Desired Skills and Values	72
Asking Good Questions	73
Being a Good "Listener"	74
Staying Adaptive	74
Having a Firm Grasp of the Issues Being Studied	75
Avoiding Bias and Collecting Research Ethically	76
Preparation and Training for a Specific Case Study	77
Protecting Human Subjects	77
Training to Do the Case Study ..	79
<i>Protocol development and review</i>	82
<i>Problems to be addressed during training</i>	82
The Case Study Protocol	84
Overview of the Case Study (Section A of the Protocol)	86
Data Collection Procedures (Section B of the Protocol)	88
Data Collection Questions (Section C of the Protocol)	89
<i>General orientation of the questions</i>	89
<i>Five levels of questions</i>	90
<i>Undesired confusion between unit of data         collection and unit of analysis</i>	92
<i>Other data collection devices</i>	93
Guide for the Case Study Report (Section D of the Protocol)	93

Screening the Candidate Cases for Your Case Study	95
<i>A one-phase approach</i>	95
<i>A two-phase approach</i>	95
The Pilot Case Study	96
Selection of Pilot Cases	96
Scope of the Pilot Inquiry	97
Reports from the Pilot Cases	98
Summary	98
Notes to Chapter 3	99
<b>Tutorial 3.1: More on Review by Institutional Review Boards (IRBs)</b>	<b>100</b>
<b>4. Collecting Case Study Evidence: The Principles You Should Follow in Working with Six Sources of Evidence</b>	<b>103</b>
Supporting Textbooks	103
Supporting Principles	104
Six Sources of Evidence	105
Documentation	105
Archival Records	109
Interviews	110
<i>Prolonged case study interviews</i>	110
<i>Shorter case study interviews</i>	111
<i>Survey interviews in a case study</i>	112
<i>Summary</i>	113
Direct Observations	113
Participant-Observation	115
Physical Artifacts	117
Summary	118
Four Principles of Data Collection	118
Principle 1: Use Multiple Sources of Evidence	118
<i>Triangulation: Rationale for using multiple sources of evidence</i>	119
<i>Prerequisites for using multiple sources of evidence</i>	122
Principle 2: Create a Case Study Database	123
<i>Field notes</i>	124
<i>Case study documents</i>	125
<i>Tabular materials</i>	126
<i>New narrative compilations</i>	126
Principle 3: Maintain a Chain of Evidence	127

Principle 4: Exercise Care When Using Data from Electronic Sources	129
<i>A broad array of electronic sources</i>	129
<i>Cautions</i>	129
Summary	130
Notes to Chapter 4	130
<b>5. Analyzing Case Study Evidence: How to Start Your Analysis, Your Analytic Choices, and How They Work</b>	<b>133</b>
An Analytic Strategy: More Than Familiarity with Analytic Tools	133
Need for an Analytic Strategy	133
<i>Another challenge</i>	133
<i>Computer-assisted tools</i>	134
<i>Starting an analytic strategy</i>	135
Four General Strategies	136
<i>Relying on theoretical propositions</i>	136
<i>Working your data from the "ground up"</i>	136
<i>Developing a case description</i>	139
<i>Examining plausible rival explanations</i>	140
<i>Summary</i>	142
Five Analytic Techniques	142
1. Pattern Matching	143
<i>Nonequivalent dependent variables as a pattern</i>	143
<i>Rival independent variables as a pattern</i>	146
<i>Precision of pattern matching</i>	147
2. Explanation Building	147
<i>Elements of explanations</i>	147
<i>Iterative nature of explanation building</i>	149
<i>Potential problems in explanation building</i>	150
3- Time-Series Analysis	150
<i>Simple time series</i>	151
<i>Complex time series</i>	152
<i>Chronological sequences</i>	154
<i>Summary conditions for-time-series analysis</i>	154
4. Logic Models	155
<i>Individual-level logic model</i>	157
<i>Firm- or organizational-level logic model</i>	159
<i>Program-level logic model</i>	159
<i>Sharpening your use of logic models</i>	159
<i>Summary</i>	163
5. Cross-Case Synthesis	164

Pressing for a High-Quality Analysis	168
Summary	169
Note to Chapter 5	170
<b>Tutorial 5-1: More on Using CAQDAS Software to Analyze Case Study Data</b>	<b>171</b>
<b>Tutorial 5.2: Depicting a Nonlinear Logic Model</b>	<b>172</b>
<b>Tutorial 5.3: When a Case Study Has Many Cases</b>	<b>174</b>
<b>6. Reporting Case Studies: How and What to Compose</b>	<b>177</b>
Having a Flair	177
What "Composing" Covers	178
Audiences for Case Study Reports	179
Potential Audiences	179
Orienting a Case Study Report to an Audience's Needs	181
Communicating with Case Studies	182
Varieties of Case Study Compositions	183
Reporting Formats	183
<i>Single-case study</i>	183
<i>Multiple-case study</i>	184
<i>Option for either a single- or multiple-case study</i>	185
<i>Option for multiple-case study only</i>	186
Illustrative Overall Structures for Case Study Compositions	187
<i>Linear-analytic structures</i>	188
<i>Comparative structures</i>	188
<i>Chronological structures</i>	188
<i>Theory-building structures</i>	189
<i>Suspense structures</i>	189
<i>Unsequenced structures</i>	189
Methods and Research Literature Portions of a Case Study Report	190
<i>Description of methods</i>	191
<i>Coverage of research literature</i>	192
Case Studies as Part of Larger, Mixed Methods Studies	193
Procedures in Composing a Case Study Report	194
When and How to Start Composing	195
Case Identities: Real or Anonymous?	196
Reviewing the Draft Case Study: A Validating Procedure	198
What Makes an Exemplary Case Study?	200
The Case Study Must Be Significant	201
The Case Study Must Be "Complete"	202

The Case Study Must Consider Alternative Perspectives	203
The Case Study Must Display Sufficient Evidence	205
The Case Study Must Be Composed in an Engaging Manner	205
Notes to Chapter 6	206
<b>Tutorial 6.1: Reporting Your Case Study Methodology as an Independent Research Article</b>	<b>207</b>
<b>Appendix A: A Note on the Uses of Case Study Research in Psychology</b>	<b>209</b>
Clarifying the Niche for Case Study Research: Three Comparisons	209
1. <i>Case study research compared to other uses of case studies</i>	209
2. <i>Case study research compared to other social         science methods</i>	209
3. <i>Case study research compared to three other         research methods in psychology</i>	210
Case Studies: Conditions That Lead to Having More Variables Than Data Points	212
<i>In-depth inquiry</i>	212
<i>Conditions 'over time</i>	214
<i>Contextual conditions</i>	214
<i>Summary of three conditions</i>	214
Motives for Using Case Study Research in Psychology	215
<i>Exploration</i>	215
<i>Description and explanation</i>	215
<i>Evaluation</i>	217
Caveats and Concerns in Doing Case Study Research	217
Note to Appendix A	218
<b>Appendix B: A Note on the Uses of Case Study Research in Evaluations</b>	<b>219</b>
Case Study Research as an Evaluation Method	220
Case Study Research as Part of a Larger Evaluation	220
Case Study Research as the Primary Evaluation Method	222
1. <i>Focus on the initiative</i>	222
2. <i>Focus on outcomes</i>	224
3. <i>Focus on initiative and outcomes</i>	225
Case Study Research as Part of Dual-Level Evaluation Arrangements	226
Summary	227
Notes to Appendix B	227



<b>Appendix C: Index of Individual Case Studies (cited in BOXES or from Expanded Case Study Materials)</b>	<b>229</b>
Index to Case Studies	229
List of BOXES	230
References to Expanded Case Study Materials	234
<b>Brief Glossary of Terms Directly Related to Case Study Research</b>	<b>237</b>
<b>References</b>	<b>243</b>
<b>Author Index</b>	<b>259</b>
<b>Subject Index</b>	<b>265</b>

Design Thinking can be regarded as a problem solving method or, by some definitions, a process for the resolution of problems (but see below for the differences between methods and process). As a solution-based approach to solving problems, Design Thinking is particularly useful for addressing so-called "wicked" problems.