

Contents

List of Contributors	xiii
Preface	xv

CHAPTER 1 Integration and Collective Action: Studies of Urban Planning and Recovery After Disasters 1

ALAN MARCH, MARIA KORNAKOVA, AND JORGE LEON

Introduction	1
Coping With Disasters	1
Recovery as a “Phase”	3
Planning for Recovery	5
Urban Features and Risk Reduction	6
Physical Aspects	6
Social Aspects	7
Economic Aspects	7
Environmental Aspects	8
Urban Planning	8
Conclusions	10
References	10

CHAPTER 2 Urban Planning and Recovery Governance..... 13

ALAN MARCH, MARIA KORNAKOVA, AND JOHN HANDMER

Introduction	13
Urban Planning: Recovery as <i>Process</i>	15
Planning Using Evidence	17
Governance and Recovery: Planning With and for Others	19
Toward Good Disaster Recovery Governance	19
Urban Planning and the Main Agencies in Recovery	21
Urban Planning and Recovery: Potentials and Problematics	22
Conclusions	28
References	28
Further Reading	30

CHAPTER 3 Equity in Recovery 31

JANET STANLEY

Introduction	31
Disaster Events	32
Equity	34

Ability to Recover From a Disaster.....	35
Nature of the Disaster	35
Personal Resources	36
Those With Existing Vulnerabilities	37
Those Who Are at Risk of Becoming Vulnerable.....	38
Societal Responses	38
Broad Society	38
The Third Sector.....	39
Community	39
Government Planning	40
Conclusions	42
References	43

CHAPTER 4 When Systems Break Down: The Role of International Aid and Humanitarian Response in Disaster Recovery 47

THOMAS BAMFORTH

Introduction	47
Humanitarian Reform and the Transformative Agenda	48
Recurring Themes and Challenges in Coordinating Disaster Response	53
Relationships With Government.....	53
Engagement With Local Civil Society Organizations and the Private Sector	53
Protection, Gender, and Disability Inclusion.....	54
Housing, Land, and Property.....	55
Cash and Shelter	56
Accountability to Affected Populations.....	57
Transition to Recovery.....	58
Conclusion.....	59
References	60

CHAPTER 5 Rebuilding or Repositioning: Lessons for Sandy, New Orleans, and Elsewhere 63

EDWARD J. BLAKELY

Introduction	63
Why Reposition Versus Rebuild	64
Repair Versus Reposition	69
Competing Recovery Visions	70
Economic Repositioning in Recovery	72
Repositioning Opportunities	72
Lessons.....	74

	From Here to Where.....	75
	References.....	76
CHAPTER 6	Finance, Insurance, and Facilitation of Recovery: Should the Role and Responsibility Assigned to Government Be to Assert Control Over Long-Term Planning?	77
	SARAH-ALICE MILES	
	Introduction.....	77
	Situational History	78
	Perceptions of Government.....	82
	Social Cohesion.....	83
	The EQC.....	85
	Southern Response	86
	The Private Insurance Industry	86
	The Red Zone and Forced Migration	87
	The Anchor Projects	88
	Deregulation in the Form of Relaxed Building Requirements (MBIE Guidelines).....	88
	Conclusion.....	89
	References.....	92
	Further Reading.....	93
CHAPTER 7	From Recovery to Prevention: The Swiss Avalanche Program	95
	MARIA KORNAKOVA AND ALAN MARCH	
	Introduction.....	95
	Land Use Changes in Switzerland in the First Half of the 20th Century.....	97
	LAT and Land Use Changes	98
	Avalanche Zoning—Purpose and Technicalities.....	99
	Role of Stakeholders in Modern Avalanche Zoning Practices.....	101
	Conclusions.....	103
	References.....	104
CHAPTER 8	Reconstruction of Informality: Can Formal Reconstruction Re-create Informality?	107
	MOJGAN TAHERI TAFTI	
	Introduction.....	107
	Informality and the Production of Urban Inequality.....	108
	Bhuj Earthquake and Reconstruction.....	110
	Bam Earthquake and Reconstruction	111

	Political and Spatial Practices of Informality in Reconstruction.....	112
	Reconstruction of the Landscapes of Informality in Inner Urban Areas.....	114
	Reconstruction of the Landscapes of Informality on Urban Periphery.....	115
	Informality and Struggles for Urban Space.....	116
	Driving Forces of the Displacement.....	119
	Assistance Distribution Programs	120
	Planning and Building Regulation.....	120
	Land Governance.....	120
	Challenging the Displacement Driven by Informality Through Informality.....	121
	Politics of Inclusion.....	123
	Informal Politics	124
	Scale Jumping.....	124
	Conclusion.....	125
	Acknowledgment	126
	References	126
CHAPTER 9	Reconstructing Vulnerability After the 2013 European Floods: Oil Damage and Recovery.....	129
	MARK KAMMERBAUER AND CHRISTINE WAMSLER	
	Introduction	129
	The 2013 Floods in Europe.....	130
	The Case of Deggendorf: Fischerdorf and Natternberg Areas.....	130
	Emergency Assistance.....	131
	Reconstruction.....	132
	Vulnerability.....	134
	Planning Strategies.....	136
	Conclusions	137
	References	138
CHAPTER 10	The Opportunity for Improved Regulations After the 2009 Victorian Wildfires in Australia...	141
	MARIA KORNAKOVA AND ALAN MARCH	
	Introduction	141
	Wildfires in Victoria, Australia.....	142
	Before the Event: The Wildfire Management Overlay.....	143
	The 2009 Fires.....	144

Centralization and Widespread Application of the WMO	147
The BMO and Reallocation of Roles	148
The Challenges of Applying Science	148
Between Risk and Political Reality	149
The Growth of Grassroots and a Backlash	150
Conclusion	153
References	154

CHAPTER 11 Toward Sustainable Disaster Recovery by Seeing It as “More Than a Roof Overhead” 157

ESTHER CHARLESWORTH AND IFTEKHAR AHMED

More Than a Roof Overhead	157
Case Study 1: Reconstruction of a Tsunami-Affected Community, Seenigama, Sri Lanka	159
Success Factors	162
Case Study 2: Musicians’ Village, New Orleans, USA	163
Success Factors	166
Key Lessons	168
Conclusion	169
References	169

CHAPTER 12 Resilient Housing Reconstruction in the Developing World..... 171

IFTEKHAR AHMED

Introduction	171
Postdisaster Reconstruction: An Opportunity for Building Resilience	173
Wider Linkages	173
Livelihoods: A Vital Link	174
Social Capital: The Missing Element	174
A Changing Context: Climate Change and Urbanization	175
Challenges in Postdisaster Reconstruction	176
The Need to Identify Good Practice	177
Case Study: Villa Rosa, Haiti	177
Project Summary	178
Agency Roles	179
Housing Reconstruction Process	179
Main Project Elements	180
Key Achievements	181
Key Challenges	181

Beneficiary Narratives	182
Lessons From Villa Rosa	184
Conclusion.....	184
References	185

CHAPTER 13 Ten Years of Great Love—The Evolution of Housing Reconstruction in Banda Aceh, Indonesia 189

DAVID O'BRIEN, CATHERINE ELLIOTT, AND BRENDON McNIVEN

Introduction	189
Reconstruction Processes and Outcomes	190
Tzu Chi in Banda Aceh—Two Sites	192
Construction Technologies at the Great Love Villages	194
Research Design.....	195
Comparing Village Maps—Great Love I—Panteriek	195
Comparing Village Maps—Great Love II—Neuheun	197
Comparative Scope of Change	197
Case Study Examples—Great Love I Village—Panteriek	199
Case Study 1—Low-Level Modifications	199
Case Study 2—Mid-Level Modifications.....	200
Case Study 3—High-Level Modifications.....	200
Case Study Examples—Great Love II Village—Neuheun	201
Case Study 4—Low-Level Modifications	201
Case Study 5—Mid-Level Modifications.....	201
Case Study 6—High-Level Modifications.....	202
Discussion	202
Location.....	203
Tenure	203
Materiality	204
Duty of Care	204
Conclusions	205
Acknowledgments.....	206
References	206

CHAPTER 14 Community-Driven Change 209

KATE COTTER

Introduction	209
Black Saturday Rebuilding and Recovery.....	209
The Victorian Bushfires Royal Commission	211
My Story.....	213
Big Hill	213
The Lobby Group	215

Response From Government	215
Media	218
The Minister Calls	218
Legislation Changes	219
The BMO and Regulatory Failure.....	220
Expert Advice	220
Impact Analysis	221
Priority of Life.....	221
Impact on Landowners	223
Impact on Communities	224
Lessons and Reflections	224
Formalizing Community Advocacy.....	224
Empowering High-Risk Communities	225
Postdisaster Policy Development	225
Is the Challenge Over?	226
References	227
Further Reading.....	229

CHAPTER 15 Planning for Recovery: Ideas and Problematics 231

ALAN MARCH AND MARIA KORNAKOVA

Introduction	231
Recovery and Dynamic Settlements	231
Elements of a Resilient Settlement: Physical, Human, and Environmental Systems	232
Recovery Usually Focuses on Rebuilding, but Is Actually for People.....	236
Equality and Harsh Realities	238
Opportunities, Path Dependencies, and Change.....	239
New and Existing Knowledge Versus Timely Rebuilding	242
Temporary or Workaround Solutions May Be Long Lasting.....	242
Site Specificity Versus Standardization and Homogeneity	244
Ways Forward to Deal With Core Challenges to Plan for Disaster Recovery	245
References	247

Index	249
-------------	-----