### VOLUME I THEORETICAL FOUNDATIONS: UNIQUE ASPECTS OF POST-DISASTER RECONSTRUCTION

-

i.

.

	Acknowledgements Chronological table of reprinted articles and chapters	xiv xvi
	Introduction ROBERT B. OLSHANSKY	1
1	Major insights: a summary and recommendations ROBERT W. KATES	15
2	The community recovery process in the United States after a major natural disaster CLAIRE B. RUBIN	37
3	The disaster recovery process: what we know and do not know from research E. L. QUARANTELLI	55
4	<b>Planning for disaster recovery: emerging research</b> <b>needs and challenges</b> ROBERT B. OLSHANSKY AND STEPHANIE CHANG	75
5	<b>Recovery after disaster: achieving sustainable development,</b> <b>mitigation and equity</b> PHILIP R. BERKE, JACK KARTEZ, AND DENNIS WENGER	97
6	Planning for postdisaster resiliency PHILIP R. BERKE AND THOMAS J. CAMPANELLA	117

v

С	0	Ν	Т	Е	Ν	Т	S

I

	CONTENTS	
7	Sustainable disaster recovery: operationalizing an existing agenda GAVIN P. SMITH AND DENNIS WENGER	
8	Assessing community impacts of natural disasters MICHAEL K. LINDELL AND CARLA S. PRATER	
9	Long-term recovery from recent disasters in Japan and the United States HARUO HAYASHI	
10	Disaster and recovery: processes compressed in time ROBERT B. OLSHANSKY, LEWIS D. HOPKINS, AND LAURIE A. JOHNSON	
11	Introduction to the special issue on disaster recovery CLAIRE LEE REISS	
12	Social dimensions of disaster recovery kathleen tierney and anthony oliver-smith	
13	The role of the built environment in the recovery of cities and communities from extreme events DANIEL J. ALESCH AND WILLIAM SIEMBIEDA	
14	<b>Communities as complex, open, and self-organizing</b> <b>social systems</b> LUCY A. ARENDT AND DANIEL J. ALESCH	
15	<b>Community disaster recovery: definition, processes, and obstacles</b> LUCY A. ARENDT AND DANIEL J. ALESCH	
16	Synthesis efforts in disaster recovery research LAURIE A. JOHNSON AND HARUO HAYASHI	
	DLUME II GOVERNANCE AND PLANNING: DVERNMENT PERSPECTIVES	
	Acknowledgements	
	RT 1 wernance and management, reconstruction organizations	
17	<b>Building a theory of recovery: institutional dimensions</b> GAVIN SMITH AND THOMAS BIRKLAND	

vi

18	Institutions, routines, and crises: post-earthquake housing recovery in Mexico City and Los Angeles ASEEM INAM	25
19	Lessons from the Gujarat experience: for disaster mitigation and management v. THIRUPPUGAZH AND SUDHIR KUMAR	54
20	Post-disaster reconstruction and institutional mechanisms for risk reduction: a comparative study of three disasters in India V. THIRUPPUGAZH	66
21	Institutional arrangements for managing large-scale recovery: key lessons from 2004 tsunami sudhir Kumar	91
22	The planning and reconstruction response DAVID W. EDGINGTON	108
23	Lessons on reconstruction strategies from the great Hanshin-Awaji earthquake YOSHITERU MUROSAKI	139
24	<b>Rebuilding communities following disaster: lessons from</b> <b>Kobe and Los Angeles</b> ROBERT B. OLSHANSKY, LAURIE A. JOHNSON, AND KENNETH C. TOPPING	148
25	Recovery efforts in New York after 9/11 DAVID MAMMEN	175
26	Transforming governance: how national policies and organizations for managing disaster recovery evolved following the 4 September 2010 and 22 February 2011 Canterbury earthquakes LAURIE A. JOHNSON AND LJUBICA MAMULA-SEADON	201
27	Enhancing disaster recovery: lessons from exemplary international disaster management practices JEFFREY D. GARNETT AND MELINDA MOORE	233
28	Developing a local recovery management framework: report on the post-disaster strategies and approaches taken by three local governments in the U.S. following major disasters LAURIE A. JOHNSON	251

÷

i.

vii

CONTENTS	С	0	N	Т	Е	Ν	Т	ŝ
----------	---	---	---	---	---	---	---	---

.

	RT 2 econstruction planning processes and plan contents	283
29	Introduction to Rebuilding after earthquakes: lessons from planners william spangle and associates, INC.	285
30	Planning the reconstruction of Bhuj B.R. BALACHANDRAN	293
31	Planning after Hurricane Katrina ROBERT B. OLSHANSKY	325
`32	Planning for the rebuilding of New Orleans ROBERT B. OLSHANSKY, LAURIE A. JOHNSON, JEDIDIAH HORNE, AND BRENDAN NEE	337
33	Securing Tohoku's future: planning for rehuilding in the first year following the Tohoku-Oki earthquake and tsunami KANAKO IUCHI, LAURIE A. JOHNSON, AND ROBERT B. OLSHANSKY	363
34	Long-term recovery planning: the process of planning LAURIE A. JOHNSON	386
	ART 3 re-disaster planning for post-disaster reconstruction	431
3	5 Summary of The recovery and reconstruction plan of the city of Los Angeles: evaluation of its use after the Northridge earthquake SPANGLE ASSOCIATES WITH ROBERT OLSON ASSOCIATES, INC.	433
3	6 Post-disaster redevelopment planning: local capacity building through pre-event planning SANDY MEYER, EUGENE HENRY, ROY E. WRIGHT, AND CYNTHIA A. PALMER	438
	viii	

7

<u>ا</u>

37	7 Anticipating disruption J. BARRY HOKANSON AND JAMES C. SCHWAB	460
38	<b>Disaster recovery planning: expectations versus reality</b> KENNETH C. TOPPING AND JAMES C. SCHWAB	487
39	Adaptive planning for disaster recovery and resiliency: an evaluation of 87 local recovery plans in eight states PHILIP BERKE, JOHN COOPER, MEGHAN AMINTO, SHANNON GRABICH, AND JENNIFER HORNEY	516
	DLUME III GOVERNANCE AND PLANNING: DMMUNITY PERSPECTIVES	
	Acknowledgements	vii
No rec	RT 1 on-governmental organizations, community-based construction, social capital The Northridge earthquake: community-based approaches to unmet recovery needs	1
No rec	on-governmental organizations, community-based construction, social capital	1 3
No rec	on-governmental organizations, community-based construction, social capital The Northridge earthquake: community-based approaches to unmet recovery needs	-
No reo 40 41	on-governmental organizations, community-based construction, social capital The Northridge earthquake: community-based approaches to unmet recovery needs ROBERT BOLIN AND LOIS STANFORD Planning goals and urban realities: post-disaster reconstruction in a third world city	3
No reo 40 41	<ul> <li>pn-governmental organizations, community-based construction, social capital</li> <li>The Northridge earthquake: community-based approaches to unmet recovery needs</li> <li>ROBERT BOLIN AND LOIS STANFORD</li> <li>Planning goals and urban realities: post-disaster reconstruction in a third world city</li> <li>ANTHONY OLIVER-SMITH AND ROBERTA E. GOLDMAN</li> <li>Half full or half empty? Shelter after the Jogjakarta earthquake</li> </ul>	3

ix

45	<b>5 The power of people: social capital's role in recovery from</b> <b>the 1995 Kobe earthquake</b> DANIEL P. ALDRICH	118
	ART 2 ublic engagement	139
46	Nontraditional participation in disaster recovery planning: cases from China, India, and the United States DIVYA CHANDRASEKHAR, YANG ZHANG, AND YU XIAO	141
47	<b>Participation, perception of participation, and citizen support</b> MARY GRISEZ KWEIT AND ROBERT W. KWEIT	161
48	Disaster recovery as participation: lessons from the Shaky Isles SUZANNE VALLANCE	177
49	Disaster recovery among multiethnic immigrants: a case study of Southeast Asians in Bayou La Batre (AL) after Hurricane Katrina MAI THI NGUYEN AND DAVID SALVESEN	194
50	Enabling participatory planning after disasters: a case study of the World Bank's housing reconstruction in Turkey N. EMEL GANAPATI AND SUKUMAR GANAPATI	214
	RT 3 mmunity relocation after disaster	245
51	<b>Population displacement and housing dilemmas due to</b> <b>catastrophic disasters</b> JOYCE N. LEVINE, ANN-MARGARET ESNARD, AND ALKA SAPAT	247
52	Planning resettlement after disasters KANAKO IUCHI	269
53	Relocating a flood-affected community: good planning or good politics? NEIL SIPE AND KAREN VELLA	292
54	<b>Moving a community in the aftermath of the great 1993</b> <b>midwest flood</b> DENNIS M. KNOBLOCH	312

9

х

-	$\cap$	Ν	т	$\mathbf{C}$	NL	т	¢	
~	U	IN	1	E	IN	1	э	

# VOLUME IV HOUSING AND ECONOMY RECOVERY

	Acknowledgements	ix
PAI Ho	art 1 using reconstruction policies	1
55	Thinking about disasters and housing MARY C. COMERIO	3
56	Sheltering and housing recovery following disaster WALTER GILLIS PEACOCK, NICOLE DASH, AND YANG ZHANG	30
57	Residential assistance and recovery following the Northridge earthquake NABIL M. O. KAMEL AND ANASTASIA LOUKAITOU-SIDERIS	- 56
58	Planning for housing recovery? Lessons learned from Hurricane Andrew YANG ZHANG AND WALTER GILLIS PEACOCK	91
59	Inequities in long-term housing recovery after disasters Walter Gillis Peacock, Shannon Van Zandt, Yang Zhang, and Wesley E. Highfield	122
60	Post-disaster housing reconstruction and social inequality: a challenge to policy and practice ANTHONY OLIVER-SMITH	148
61	Closing gaps in local housing recovery planning for disadvantaged displaced households Mark G. WELSH AND ANN-MARGARET ESNARD	<b>161</b>
62	Housing reconstruction after two major earthquakes: the 1994 Northridge earthquake in the United States and the 1999 Chi-Chi earthquake in Taiwan JIE YING WU AND MICHAEL K. LINDELL	179
63	Out of sync: World Bank funding for housing recovery, postdisaster planning, and participation N. EMEL GANAPATI AND ANURADHA MUKHERJI	200
	xi	

64	What have we learned from 40 years' experience of disaster shelter?	238
	IAN DAVIS	
	RT 2	
Sr	nall business recovery	<b>267</b> .
65	Rebounding from disruptive events: business recovery	
	following the Northridge earthquake	269
	JAMES M. DAHLHAMER AND KATHLEEN J. TIERNEY	
66	Businesses and disasters: empirical patterns and	
	unanswered questions	286
	GARY R. WEBB, KATHLEEN J. TIERNEY, AND JAMES M. DAHLHAMER	
67	who mig to m business recovery nom disaster.	
	a comparison of the Loma Prieta earthquake and	
	Hurricane Andrew	302
	GARY R. WEBB, KATHLEEN J. TIERNEY, AND JAMES M. DAHLHAMER	
68	Building community resiliency: spatial links between household	
	and business post-disaster return	325
	YU XIAO AND SHANNON VAN ZANDT	
PAI	RT 3	
Mo	delling and monitoring social and economic recovery	349
69	Modeling community recovery from earthquakes	351
	SCOTT B. MILES AND STEPHANIE E. CHANG	
70	Urban disaster recovery: a measurement framework and its	
	application to the 1995 Kobe earthquake	372
	STEPHANIE E. CHANG	
71	Economic modeling for disaster impact analysis: past, present,	
	and future	398
	YASUHIDE OKUYAMA	

xii

72	Business interruption losses from natural hazards: conceptual and methodological issues in the case of the	
	Northridge earthquake	410
	ADAM ROSE AND DONGSOON LIM	
73	Towards a theory of economic recovery from disasters	434
	STEPHANIE E. CHANG AND ADAM Z. ROSE	
74	Monitoring and evaluating post-disaster recovery using	
	high-resolution satellite imagery – towards standardised	
	indicators for post-disaster recovery	445
	DANIEL BROWN, STEPHEN PLATT, JOHN BEVINGTON, KEIKO SAITO,	
	BEVERLEY ADAMS, TORWONG CHENVIDYAKARN, ROBIN SPENCE,	
	RATANA CHUENPAGDEE, AND AMIR KHAN	
75	Exposure, social vulnerability and recovery disparities in	
	New Jersey after Hurricane Sandy	468
	SUSAN L. CUTTER, RONALD L. SCHUMANN III, AND	
	CHRISTOPHER T. EMRICH	
76	Slow going for neighborhoods	490
	SUSAN L. CUTTER, CHRISTOPHER T. EMRICH, JERRY T. MITCHELL,	
	WALTER W. PIEGORSCH, MARK M. SMITH, AND LYNN WEBER	
77	Uneven recovery	517
,,	SUSAN L. CUTTER, CHRISTOPHER T. EMRICH, JERRY T. MITCHELL,	
	WALTER W. PIEGORSCH, MARK M. SMITH, AND LYNN WEBER	
	WALLER W. FIEGUNGUN, MARK M. SMITH, AND LINN WEDER	
	Index	543

į.

xiii