

Disaster Resilience

A NATIONAL IMPERATIVE



THE NATIONAL ACADEMIES

Disaster Resilience A National Imperative

Claire B. Rubin, Susan L. Cutter



Disaster Resilience A National Imperative:

Disaster Resilience National Academies, Policy and Global Affairs, Committee on Science, Engineering, and Public Policy, Committee on Increasing National Resilience to Hazards and Disasters, 2012-12-29 No person or place is immune from disasters or disaster related losses Infectious disease outbreaks acts of terrorism social unrest or financial disasters in addition to natural hazards can all lead to large scale consequences for the nation and its communities Communities and the nation thus face difficult fiscal social cultural and environmental choices about the best ways to ensure basic security and quality of life against hazards deliberate attacks and disasters Beyond the unquantifiable costs of injury and loss of life from disasters statistics for 2011 alone indicate economic damages from natural disasters in the United States exceeded 55 billion with 14 events costing more than a billion dollars in damages each One way to reduce the impacts of disasters on the nation and its communities is to invest in enhancing resilience the ability to prepare and plan for absorb recover from and more successfully adapt to adverse events Disaster Resilience A National Imperative addresses the broad issue of increasing the nation s resilience to disasters This book defines national resilience describes the state of knowledge about resilience to hazards and disasters and frames the main issues related to increasing resilience in the United States It also provide goals baseline conditions or performance metrics for national resilience and outlines additional information data gaps and or obstacles that need to be addressed to increase the nation s resilience to disasters Additionally the book s authoring committee makes recommendations about the necessary approaches to elevate national resilience to disasters in the United States Enhanced resilience allows better anticipation of disasters and better planning to reduce disaster losses rather than waiting for an event to occur and paying for it afterward Disaster Resilience confronts the topic of how to increase the nation s resilience to disasters through a vision of the characteristics of a resilient nation in the year 2030 Increasing disaster resilience is an imperative that requires the collective will of the nation and its communities Although disasters will continue to occur actions that move the nation from reactive approaches to disasters to a proactive stance where communities actively engage in enhancing resilience will reduce many of the broad societal and economic burdens that disasters can cause

Disaster Resilience ,2012 Launching a National Conversation on Disaster Resilience in America Committee on Increasing National Resilience to Hazards and Disasters, Committee on Science, Engineering, and Public Policy, The National Academies, 2013-09-18 With the increasing frequency of natural and human induced disasters and the increasing magnitude of their consequences a clear need exists for governments and communities to become more resilient The National Research Council s 2012 report Disaster Resilience A National Imperative addressed the importance of resilience discussed different challenges and approaches for building resilience and outlined steps for implementing resilience efforts in communities and within government Launching a National Conversation on Disaster Resilience in America is a summary of a one day event in November 2012 to formally launch a national conversation on resilience Nationally recognized experts in

disaster resilience met to discuss developing a culture of resilience implementing resilience and understanding federal perspectives about resilience This report includes a broad range of perspectives and experiences derived from many types of hazards and disasters in all parts of the country

Planning for Community-based Disaster Resilience Worldwide

Adenrele Awotona, 2016-10-14 We are witnessing an ever increasing level and intensity of disasters from Ecuador to Ethiopia and beyond devastating millions of ordinary lives and causing long term misery for vulnerable populations Bringing together 26 case studies from six continents this volume provides a unique resource that discusses in considerable depth the multifaceted matrix of natural and human made disasters It examines their bearing on the loss of human and productive capital the conduct of national policies and the setting of national development priorities and on the nature of international aid and bilateral assistance strategies and programs of donor countries In order to ensure the efficacy and appropriateness of their support for disaster survivors international agencies humanitarian and disaster relief organizations scholars non governmental organizations and members of the global emergency management community need to have insight into best practices and lessons learned from various disasters across national and cultural boundaries The evidence obtained from the numerous case studies in this volume serves to build a worldwide community that is better informed about the cultural and traditional contexts of such disasters and better enabled to prepare for respond to and finally rebuild sustainable communities after disasters in different environments The main themes of the case studies include the need for community planning and emergency management to unite in order to achieve the mutual aim of creating a sustainable disaster resilient community coupled with the necessity to enact and implement appropriate laws policies and development regulations for disaster risk reduction the need to develop a clear set of urban planning and urban design principles for improving the built environment s capacities for disaster risk management through the integration of disaster risk reduction education into the curricula of colleges and universities the need to engage the whole community to build inclusive governance structures as prerequisites for addressing climate change vulnerability and fostering resilience and sustainability Furthermore the case studies explore the need to link the existence and value of scientific knowledge accumulated in various countries with decision making in disaster risk management and the relevance and transferability from one cultural context to another of the lessons learned in building institutional frameworks for whole community partnerships

U.S. Emergency

Management in the 21st Century Claire B. Rubin, Susan L. Cutter, 2019-12-06 U S Emergency Management in the 21st Century From Disaster to Catastrophe explores a critical issue in American public policy Are the current public sector emergency management systems sufficient to handle future disasters given the environmental and social changes underway In this timely book Claire B Rubin and Susan L Cutter focus on disaster recovery efforts community resilience and public policy issues of related to recent disasters and what they portend for the future Beginning with the external societal forces influencing shifts in policy and practice the next six chapters provide in depth accounts of recent disasters the Joplin

Tuscaloosa Birmingham and Moore tornadoes Hurricanes Sandy Harvey Irma Maria and the California wildfires The book concludes with a chapter on loss accounting and a summary chapter on what has gone right what has gone wrong and why the federal government may no longer be a reliable partner in emergency management Accessible and clearly written by authorities in a wide range of related fields with local experiences this book offers a rich array of case studies and describes their significance in shifting emergency management policy and practice in the United States during the past decade Through a careful blending of contextual analysis and practical information this book is essential reading for students an interested public and professionals alike

Managing Emergencies and Crises: Global Perspectives Naim

Kapucu,Alpaslan Özerdem,Abdul-Akeem Sadiq,2022-03-30 As the scale frequency and intensity of crises faced by the world have dramatically increased over the last decade there is a critical need for a careful stocktaking on the knowledge of managing disasters Managing Emergencies and Crises Global Perspectives Second Edition clearly and comprehensively explores the most important concepts of emergency and crisis management such as mitigation protection prevention preparedness response recovery vulnerability and risk assessment and illustrates them with cases involving disasters and emergencies worldwide Substantially revised the Second Edition has been reorganized and includes two new and timely chapters on terrorism and emergency management and public health emergencies and crises It also provides an emphasis on management and leadership and cross sector governance from interdisciplinary and global perspectives Two new chapters Terrorism and Emergency Management and Public Health Emergencies and Crises Wide range of scholarly perspectives are presented to guide readers understanding of various concepts in the emergency and crisis management field Rich and diverse case studies illustrate how various stakeholders including emergency program managers respond in crisis and emergency management situation Navigate eBook Access included with the print text provides online or offline access to the digital textbook Upper level undergraduate and graduate level courses in Disaster Preparedness Preparedness Training Emergency Management Training EMT Preparedness and Emergency Response Preparedness and Planning Also appropriate for researchers practitioners and leaders involved in crisis response 2023 325 pages *Disasters* Kathleen

Tierney,2019-05-20 Disasters kill maim and generate increasingly large economic losses But they do not wreak their damage equally across populations and every disaster has social dimensions at its very core This important book sheds light on the social conditions and on the global national and local processes that produce disasters Topics covered include the social roots of disaster vulnerability exposure to natural hazards such as hurricanes and tsunamis as a form of environmental injustice and emerging threats Written by a leading expert in the field this book provides the necessary frameworks for understanding hazards and disasters exploring the contributions of very different social science fields to disaster research and showing how these ideas have evolved over time Bringing the social aspects of recent devastating disasters to the forefront Tierney discusses the challenges of conducting research in the aftermath of disasters and critiques the concept of disaster resilience

which has come to be seen as a key to disaster risk reduction Peppered with case studies research examples and insights from very different disciplines this rich introduction is an invaluable resource to students and scholars interested in the social nature of disasters and their relation to broader social forces Disaster Policy and Politics Richard T. Sylves, 2019-02-13 Disaster Policy and Politics combines evidence based research with mini case studies of recent events to demonstrate the fundamental principles of emergency management and to explore the impact that disasters have had on U S policy Paying special attention to the role of key actors decision makers at the federal state and local levels scientists engineers civil and military personnel and first responders author Richard Sylves explores how researchers contribute to and engage in disaster policy development and management The highly anticipated Third Edition explores the radical change in policy and politics after the occurrence of recent disasters such as hurricanes Irma Maria and Harvey Hawaii s false nuclear attack warning and responses to U S wildfires The book s comprehensive all hazards approach introduces students to the important public policy organizational management and leadership issues they may need as future practitioners and leaders in the field A Guide to Regional Transportation Planning for Disasters, Emergencies, and Significant Events Deborah Matherly, Neeli Langdon, Paul Brian Wolshon, Pamela Marie Murray-Tuite, Roberta Thomas (Writer on emergency management), Jane Mobley, Kelly Reinhardt, 2014 NCHRP Report 777 A Guide to Regional Transportation Planning for Disasters Emergencies and Significant Events helps transportation stakeholders in the public and private sectors as well as non transportation stakeholders such as emergency managers and first responders better understand transportation s important role in planning for multijurisdictional disasters emergencies and major events The guide sets out foundational planning principles and uses examples case studies tips tools and suggested strategies to illustrate their implementation Foreword **Disaster Resilience**, 2015 **Developing a Framework for Measuring Community Resilience** National Research Council, Policy and Global Affairs, Resilient America Roundtable, Committee on Measures of Community Resilience: From Lessons Learned to Lessons Applied, 2015-03-26 The 2012 National Research Council report Disaster Resilience A National Imperative highlighted the challenges of increasing national resilience in the United States One finding of the report was that without numerical means of assessing resilience it would be impossible to identify the priority needs for improvement to monitor changes to show that resilience had improved or to compare the benefits of increasing resilience with the associated costs Although measuring resilience is a challenge metrics and indicators to evaluate progress and the data necessary to establish the metric are critical for helping communities to clarify and formalize what the concept of resilience means for them and to support efforts to develop and prioritize resilience investments One of the recommendations from the 2012 report stated that government entities at federal state and local levels and professional organizations should partner to help develop a framework for communities to adapt to their circumstances and begin to track their progress toward increasing resilience To build upon this recommendation and begin to help communities formulate such a framework

the Resilient America Roundtable of the National Academies convened the workshop Measures of Community Resilience From Lessons Learned to Lessons Applied on September 5 2014 in Washington D C The workshop s overarching objective was to begin to develop a framework of measures and indicators that could support community efforts to increase their resilience The framework will be further developed through feedback and testing in pilot and other partner communities that are working with the Resilient America Roundtable This report is a summary of the one day workshop which consisted of a keynote address and two panel sessions in the morning and afternoon breakout sessions that began the discussion on how to develop a framework of resilience measures World Social Science Report ,2013 **Measures of Community**

Resilience for Local Decision Makers National Academies of Sciences, Engineering, and Medicine,Policy and Global Affairs,Resilient America Roundtable,Committee on Processes and Objectives for Community Measures of Resilience,2017-03-16 The 2012 National Research Council report Disaster Resilience A National Imperative identified the development and use of resilience measures as critical to building resilient communities Although many kinds of resilience measures and measuring tools have and continue to be developed very few communities consistently use them as part of their planning or resilience building efforts Since federal or top down programs to build resilience often yield mixed results bottom up approaches are needed but are often difficult for communities to implement alone A major challenge for many communities in developing their own approaches to resilience measures is identifying a starting point and defining the process Other challenges include lack of political will due to competing priorities and limited resources finite time and staff to devote to developing resilience measures lack of data availability and or inadequate data sharing among community stakeholders and a limited understanding of hazards and or risks Building on existing work the National Academies of Sciences Engineering and Medicine organized a workshop in July 2015 to facilitate the exchange of knowledge and information about ways to advance the development and implementation of resilience measures by and within diverse communities Participants worked to gain a better understanding of the challenges these communities face in the pursuit of resilience and determine whether the approach used during this workshop can help guide communities in their efforts to build their own measures of resilience This publication summarizes the presentations and discussions from the workshop

Global Assessment Report on Disaster Risk Reduction United Nations. International Strategy for Disaster Reduction. Secretariat,2015 A comprehensive review and analysis of the natural hazards menacing humanity It also provides new and arresting evidence on how where and why disaster risk is increasing globally Drawing on detailed studies this Global Assessment urges a radical shift in development practices and a major new emphasis on resilience and disaster planning

Global Assessment Report on Disaster Risk Reduction 2013 United Nations,2013 This publication is the third biennial report coordinated by the United Nations Office for Disaster Risk Reduction UNISDR The first and second reports focused primarily on public policy and the role of national and local governments in disaster risk reduction This current

report explores why increasing disaster risks represent a growing problem for the economic and business community at different scales. It examines how paradoxically business investments that aimed to strengthen competitiveness and productivity may have inadvertently contributed to increasing risks. This report seeks to engage businesses in a dialogue on disaster risk management that goes beyond the current emphasis on response and preparedness and instead identifies opportunities for the creation of shared value for business and society.

The Edge of Disaster Stephen E. Flynn, 2007. The truth is acts of terror cannot always be prevented and nature continues to show its fury in frighteningly unpredictable ways. Resiliency argues Flynn must now become our national motto. With chilling frankness and clarity Flynn paints a vivid scenario of the threats we face within our own borders. *The Edge of Disaster* tells us what we can do about these threats as individuals and as a society. The time to act is now. BOOK JACKET

Vicarious Trauma and Disaster Mental Health Gertie Quitangon, Mark R. Evces, 2015-02-11. *Vicarious Trauma and Disaster Mental Health* focuses on the clinician and the impact of working with disaster survivors. Floods, hurricanes, tornadoes, mass shootings, terrorism, and other large-scale catastrophic events have increased in the last decade, and disaster resilience has become a national imperative. This book explores vicarious traumatization in mental health providers who respond to massive disasters by choice or by circumstance. What happens when clinicians share the trauma and vulnerability from the toll taken by a disaster with the victims they care for? How can clinicians increase resilience from disaster exposure and provide mental health services effectively? *Vicarious Trauma and Disaster Mental Health* offers insight and analysis of the research and theory behind vicarious trauma and compares and contrasts with other work impact concepts such as burnout, compassion fatigue, and secondary traumatic stress. It proposes practical evidence-informed personal strategies and organizational approaches that address five cognitive schemas: safety, esteem, trust, control, and intimacy, disrupted in vicarious trauma. With an emphasis on the psychological health and safety of mental health providers in the post-disaster workplace, this book represents a shift in perspective and provides a framework for the promotion of worker resilience in the standard of practice in disaster management.

The Journal of Home Economics, 1993. *Building Community Disaster Resilience Through Private-Public Collaboration*. National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Geographical Sciences Committee, Committee on Private-Public Sector Collaboration to Enhance Community Disaster Resilience, 2011-03-17. Natural disasters including hurricanes, earthquakes, volcanic eruptions, and floods caused more than 220,000 deaths worldwide in the first half of 2010 and wreaked havoc on homes, buildings, and the environment. To withstand and recover from natural and human-caused disasters, it is essential that citizens and communities work together to anticipate threats, limit their effects, and rapidly restore functionality after a crisis. Increasing evidence indicates that collaboration between the private and public sectors could improve the ability of a community to prepare for, respond to, and recover from disasters. Several previous National Research Council reports have identified specific examples of the private and public sectors working cooperatively.

to reduce the effects of a disaster by implementing building codes retrofitting buildings improving community education or issuing extreme weather warnings State and federal governments have acknowledged the importance of collaboration between private and public organizations to develop planning for disaster preparedness and response Despite growing ad hoc experience across the country there is currently no comprehensive framework to guide private public collaboration focused on disaster preparedness response and recovery Building Community Disaster Resilience through Private Public Collaboration assesses the current state of private public sector collaboration dedicated to strengthening community resilience identifies gaps in knowledge and practice and recommends research that could be targeted for investment Specifically the book finds that local level private public collaboration is essential to the development of community resilience Sustainable and effective resilience focused private public collaboration is dependent on several basic principles that increase communication among all sectors of the community incorporate flexibility into collaborative networks and encourage regular reassessment of collaborative missions goals and practices Proceedings of ISRS National Symposium on Remote Sensing Applications for Natural Resources, Retrospective and Perspective ,2000 With reference to India

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