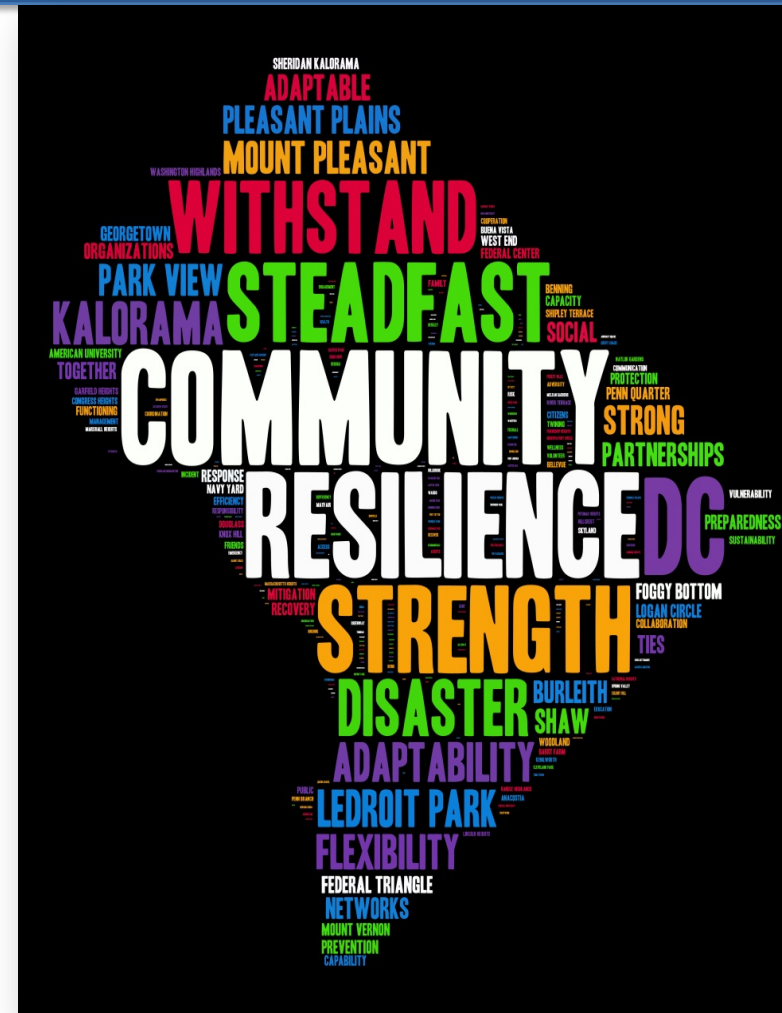# RAND's Community Resilience Portfolio

Anita Chandra

ITRC Conference on Building Personal and Psycho-Social-Spiritual Resilience for Climate Change

November 4, 2016

Today's presentation

- Brief overview of RAND's resilience orientation
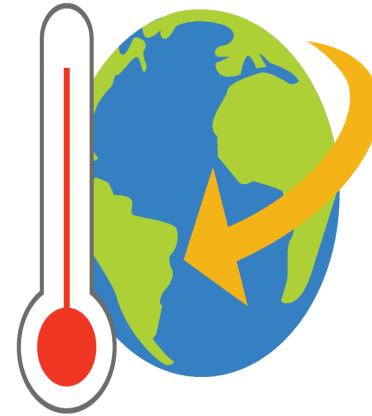
- RAND's community resilience portfolio

- Next steps

Strengthening community resilience is critical in a changing world

DISASTERS MORE COMMON

DISASTER COSTS INCREASING

NEW DISASTERS EMERGING

Resilience vs. Preparedness

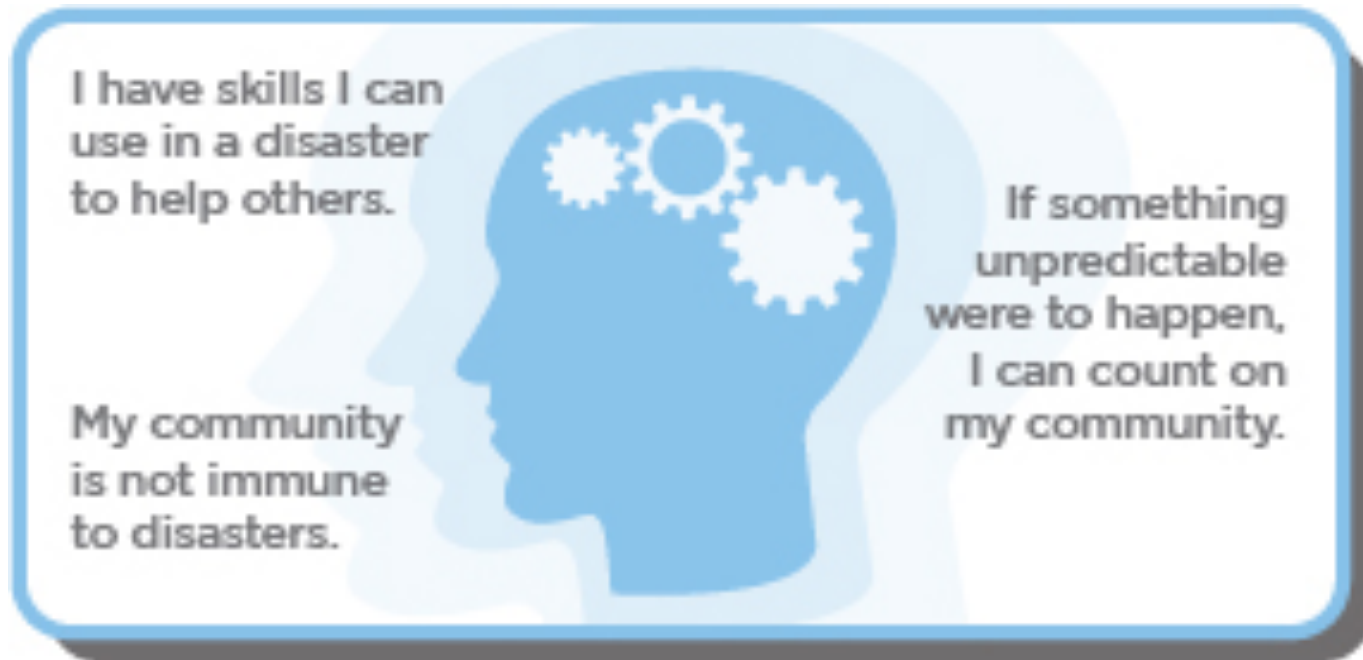Traditional disaster response models have not worked well enough

Community resilience requires building neighbor to neighbor reliance and organizational connection

RESILIENT COMMUNITIES

There are strong relationships between organizations

Organizations are ready and prepared
to respond and recover

There are enough volunteers to help in a disaster

People can rely on each other (neighbor to neighbor)

Individuals/families have the knowledge
to prepare for and respond to disaster

Resilient communities drive residents towards a resilience mindset

Community Resilience Mindset

I have skills I can use in a disaster to help others.

My community is not immune to disasters.

If something unpredictable were to happen, I can count on my community.

RAND has developed a portfolio of work in community resilience

Focus on Community Resilience

In an emergency, strong communities can be the key to survival.

Connect with your neighbors. Be prepared to respond.

Learn more at prepare2respond.org

Audio Podcast
Resilient Communities

TECHNICAL REPORT

Building Community Resilience to Disasters

A Way Forward to Enhance National Health Security

Anita Chandra • Joie Acosta • Stefanie Stern • Lori Uscher-Pines
Malcolm V. Williams • Douglas Yeung • Jeffrey Garnett • Lisa S. Meredith
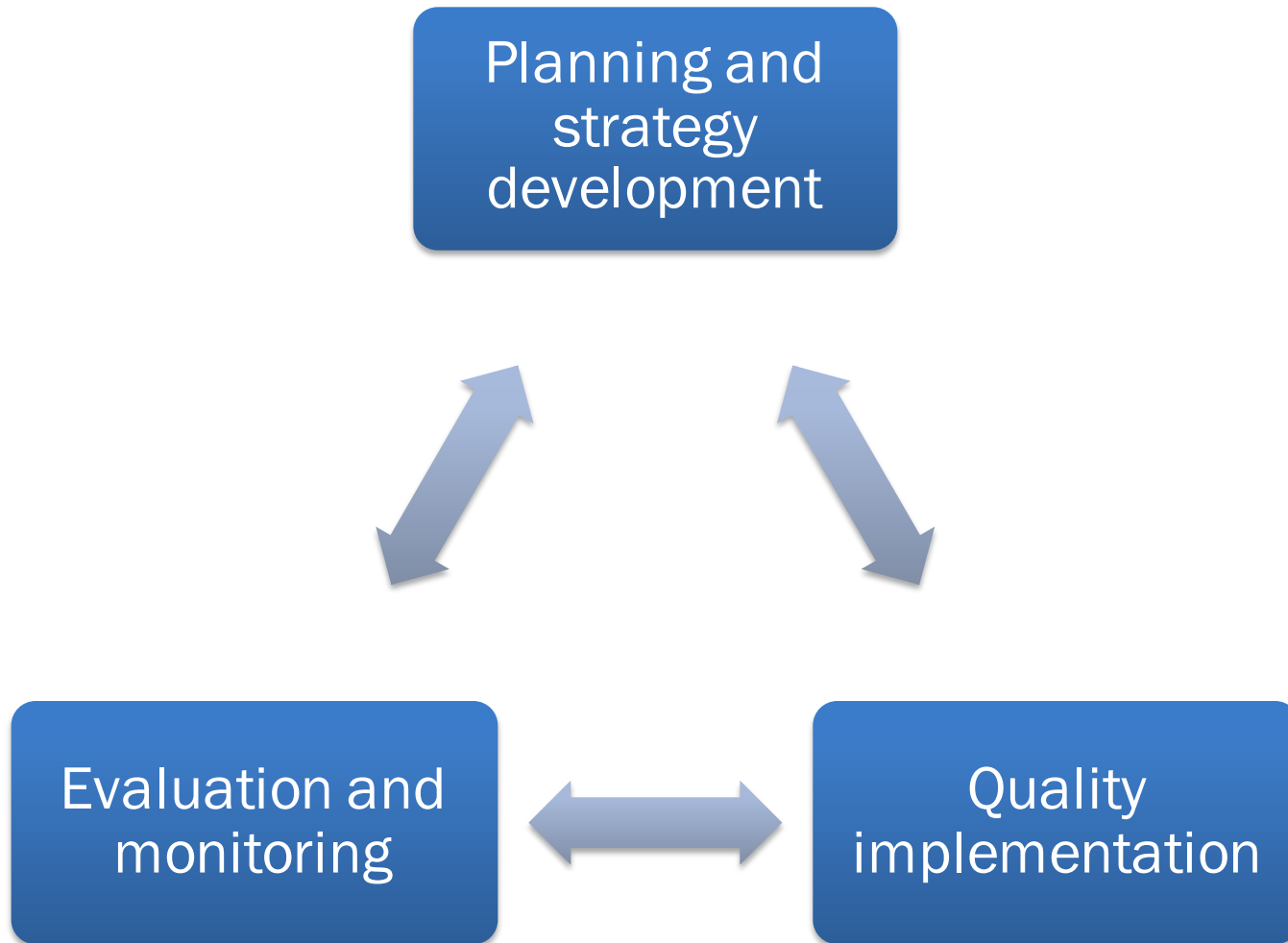
RAND HEALTH

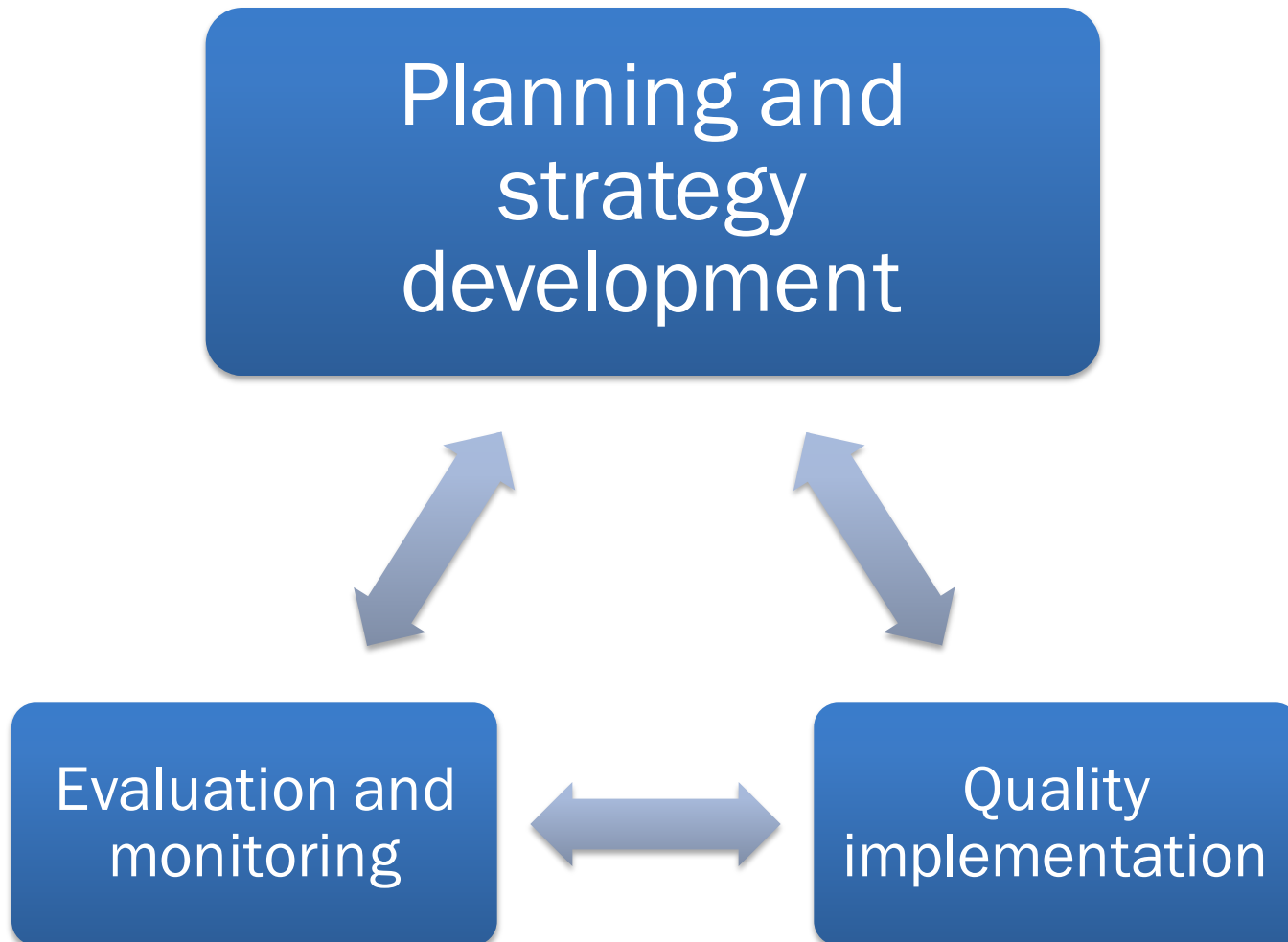# RAND's portfolio has uniquely bridged disciplines and sectors

Today's presentation

- Brief overview of RAND's resilience orientation

- RAND's community resilience portfolio

- Next steps

RAND's portfolio addresses key issues needed to bring ideas to action

Planning and strategy development

Quality implementation

Evaluation and monitoring

RAND's portfolio addresses key issues needed to bring ideas to action

Planning and strategy development

Evaluation and monitoring

Quality implementation

Planning and strategy development spans from national to local, including global

National strategy

State-wide plans

Louisiana's Master Coastal Plan
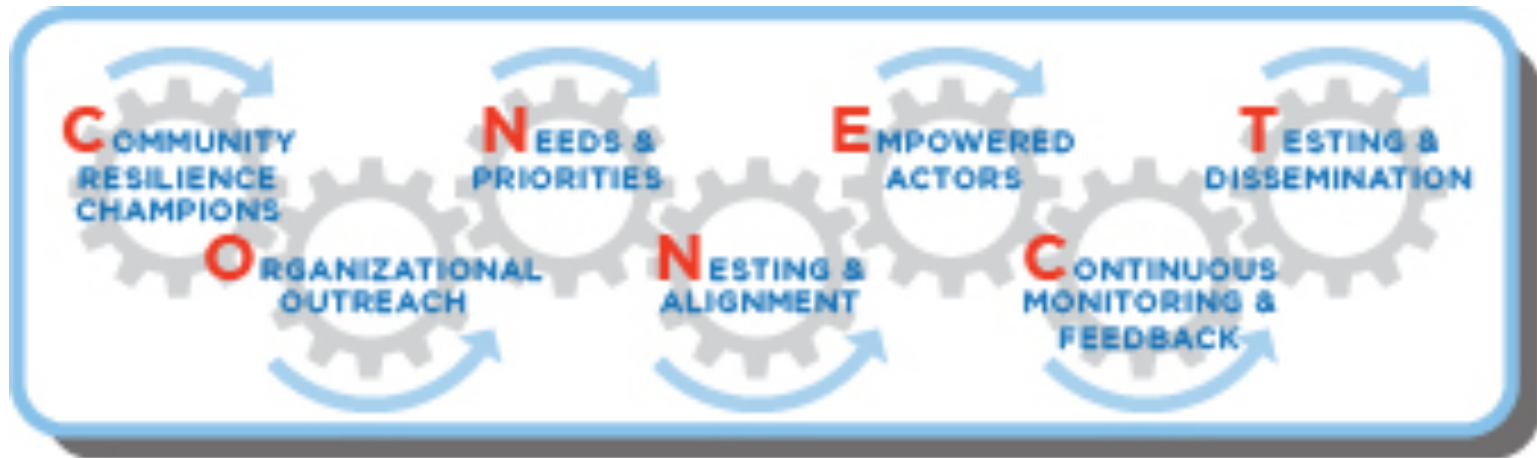
City-wide plans

Resilience strategic plan for Washington DC

RAND developed CONNECT – a resilience strategic planning model

Strategic planning model builds on 8 levers of community resilience

RAND has supported master planning processes

- Created participatory, stakeholder-informed decision framework and support tool

- Use framework to evaluate tradeoffs among a variety of proposed resilience strategies and projects

Created step by step training tool to support community planning

Table of Contents

More information? Check us out at:
www.rand.org/resilience-in-action.html

Or email us at:
communityresilience@rand.org

RAND
CORPORATION

RAND's portfolio addresses key issues needed to bring ideas to action

Planning and strategy development

Evaluation and monitoring

Quality implementation
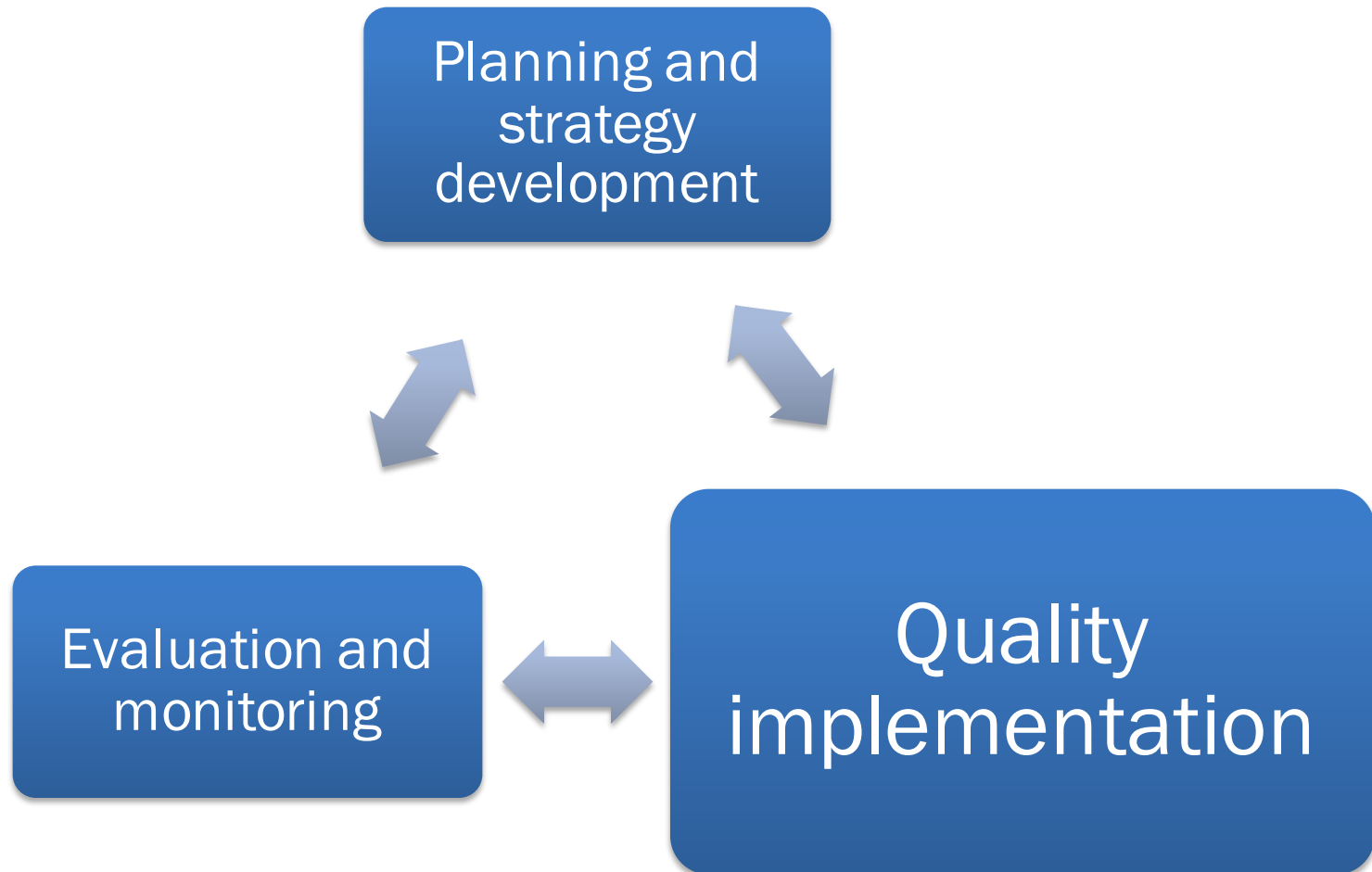
Quality implementation supported by a variety of tools

RAND tools to launch a successful resilience effort cover four key domains:

- Communication

- Mapping assets, needs and vulnerabilities

- Leveraging government, military, and non-state actors

- Assessments and decision supports

Created campaigns and branding

Developed tools for community education and mobilization

Speaker's toolkit
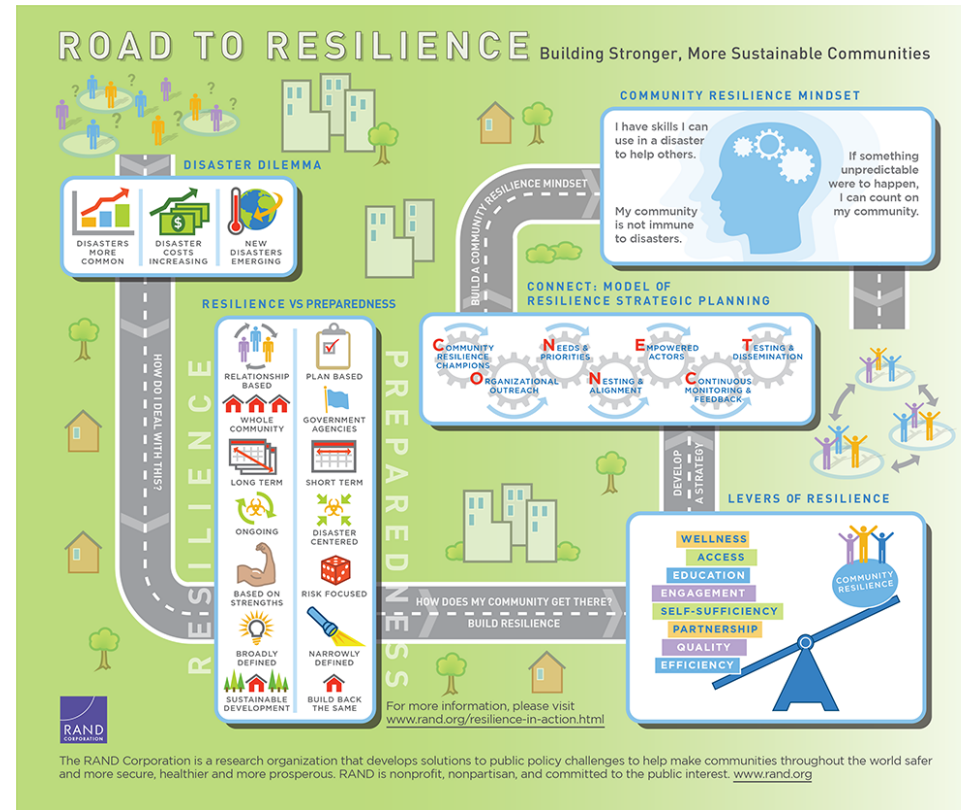
Infographics

Developed mapping tools to assess population needs and assets

LA Community Resilience
Mapping Tool (Sahana)
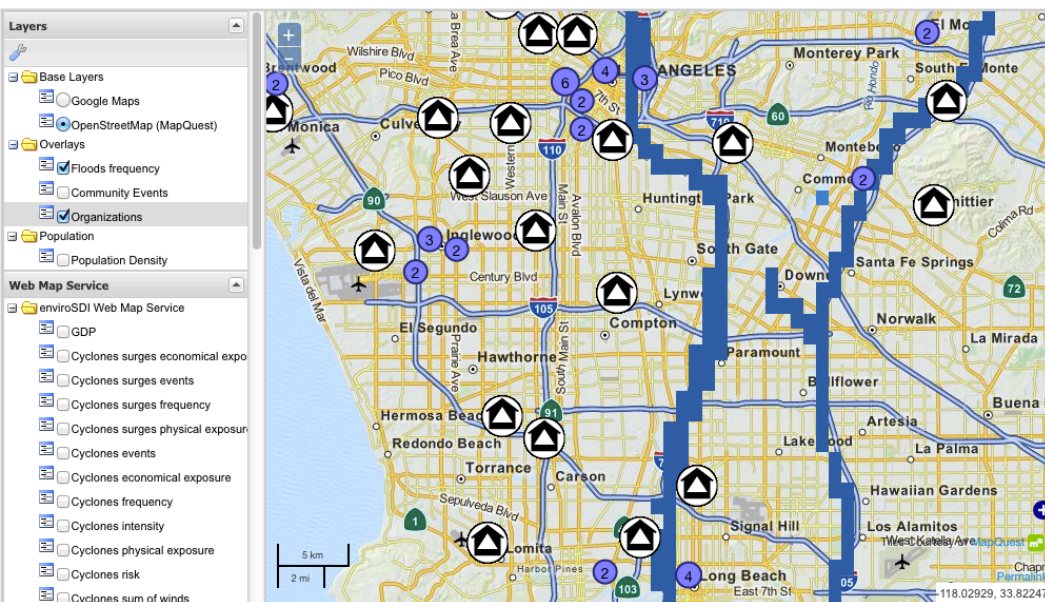
Special Needs Population
Mapping Tool
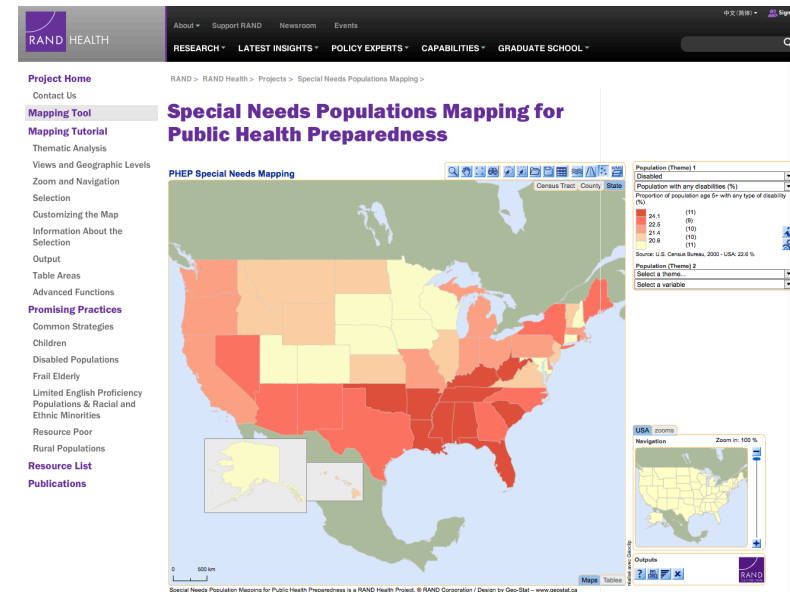
Youth Resilience Corps
Mapping Tool

Identified ways to leverage government and civil society

The Nongovernmental Sector in Disaster Resilience
Conference Recommendations for a Policy Agenda

Joie Acosta, Anita Chandra, Sally Sleeper, Benjamin Springgate

RAND GULF STATES POLICY INSTITUTE
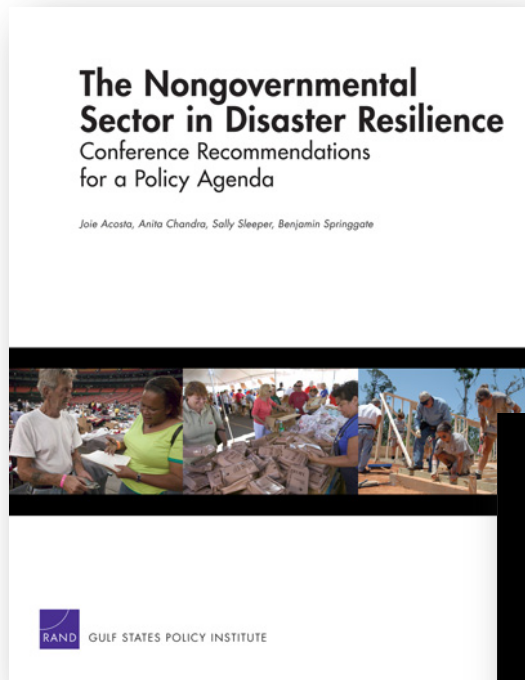
Policy and practice recommendations

BUILDING A MORE RESILIENT HAITIAN STATE

KEITH CRANE, JAMES DOBBINS, LAUREL E. MILLER,
CHARLES P. RIES, CHRISTOPHER S. CHIVVIS,
MARLA C. HAIMS, MARCO OVERHAUS,
HEATHER LEE SCHWARTZ, ELIZABETH WILKE

RAND NATIONAL SECURITY RESEARCH DIVISION

ENABLE
NON
GOVERNMENTAL
AGENCIES TO
GET
ENGAGED IN
DISASTERS

ENGAGED

TOOLKIT

RAND JUSTICE, INFRASTRUCTURE AND THE ENVIRONMENT

Joie Acosta
Anita Chandra
Zhao Yandong
Yangxu Lu

NGO self-assessment toolkit

Created assessment and decision support tools

- Developed <u>community resilience tabletop exercise</u>

- Creating a decision support framework for military-civilian response

TECHNICAL REPORT

Bridging the Gap

Developing a Tool to Support Local Civilian and Military Disaster Preparedness

Melinda Moore, Michael A. Wermuth,
Laura Werber Castaneda, Anita Chandra,
Darcy Noricks, Adam C. Resnick, Carolyn Chu,
James J. Burks

RAND Center for Military Health Policy Research

A JOINT ENDEAVOR OF RAND HEALTH AND THE
RAND NATIONAL DEFENSE RESEARCH INSTITUTE

Applied methods like Robust Decision Making to climate mitigation and adaptation choices

"Predict Then Act"
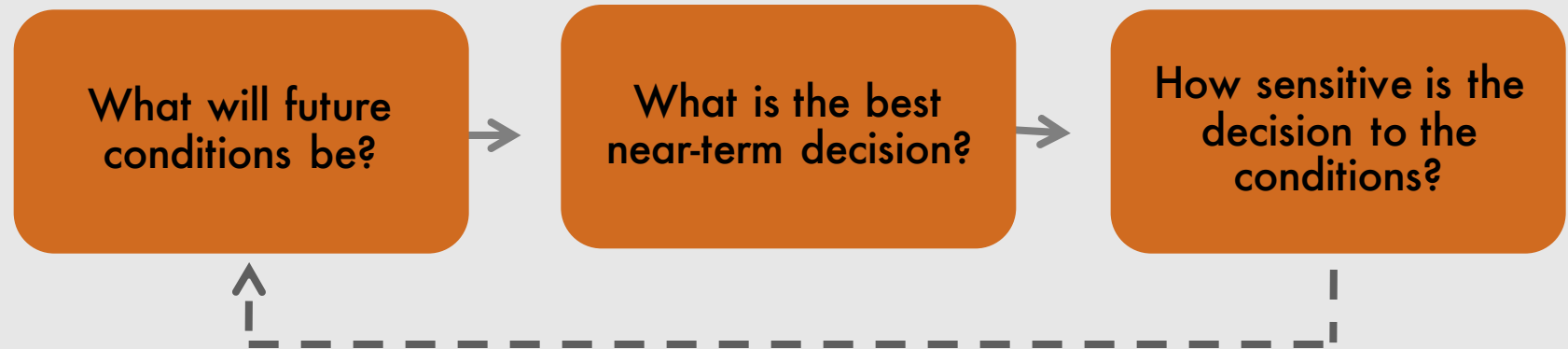
| What will future conditions be? | → | What is the best near-term decision? | → | How sensitive is the decision to the conditions? |

RDM Process

| Proposed strategy | → | Identify vulnerabilities of this strategy | → | Develop strategy adaptations to reduce vulnerabilities |

RAND's portfolio addresses key issues needed to bring ideas to action

Planning and strategy development

Evaluation and monitoring
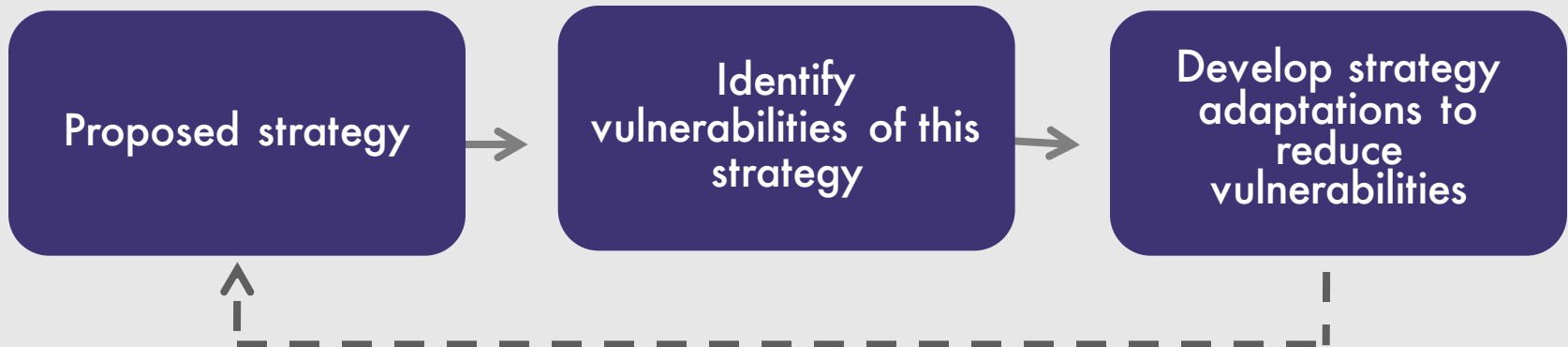
Quality implementation
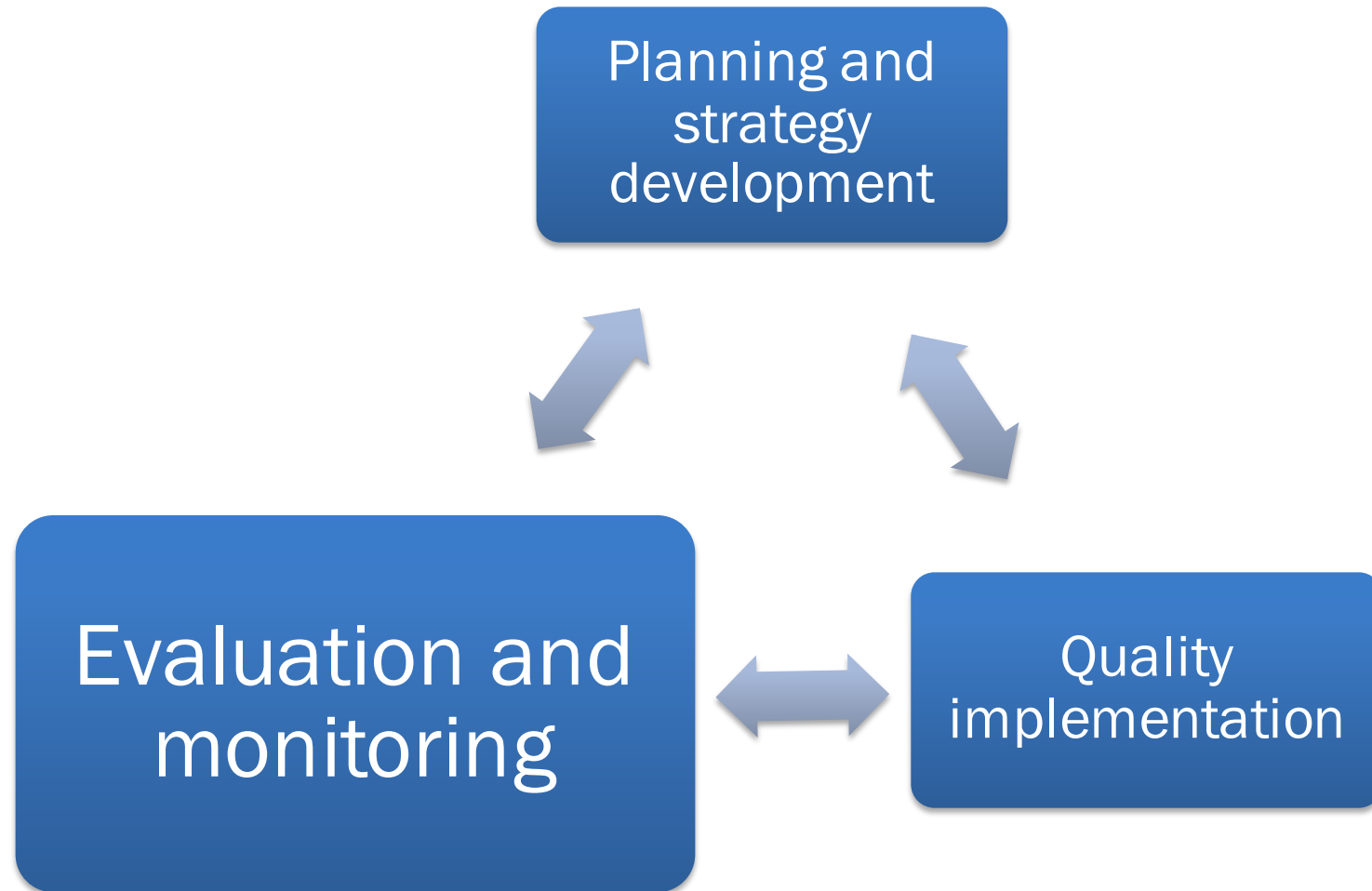
Developed new surveys

- Coalition and community surveys to chart progress along resilience levers

- Household survey to map changes in resilience understanding and activity

Los Angeles County Community Disaster Resilience Pilot Project (LACCDR)

Community Resilience Toolkit

Applied social and organizational network analysis

Developed to monitor:

- Hospital preparedness program
- Hurricane Sandy disaster recovery in NYC
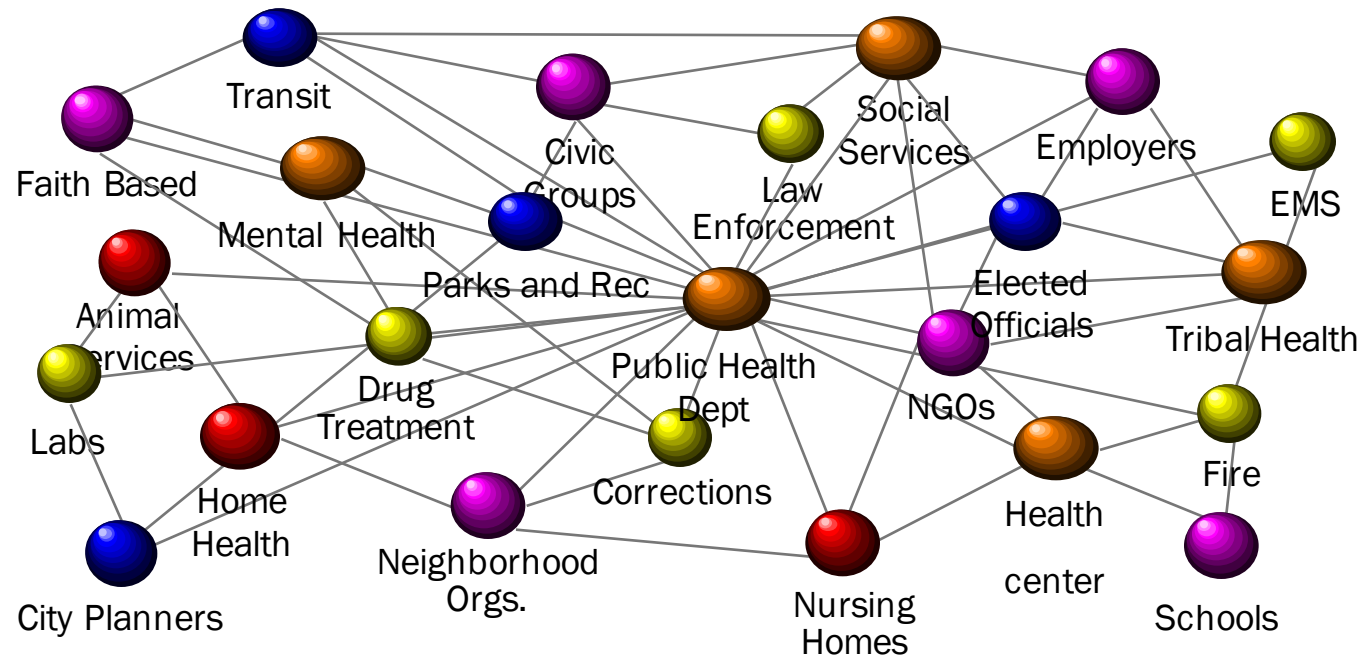
Used new forms of case study analyses

Resilient Asia Learning Collaborative

CHINA

5018 DEATHS

OVER 90 million VICTIMS

OVER 11 billion US DOLLARS

20 DISASTERS

* AVERAGE PER YEAR (1980-2010)

Lessons from Department of Defense Disaster Relief Efforts in the Asia-Pacific Region

Jennifer D. P. Moroney, Stephanie Pezard, Laurel E. Miller, Jeffrey Engstrom, Abby Doll

RAND CORPORATION

Review of CR lessons from global examples (Moore, Chandra, 2012)

ORIGINAL RESEARCH

Building Community Resilience: What Can the United States Learn From Experiences in Other Countries?

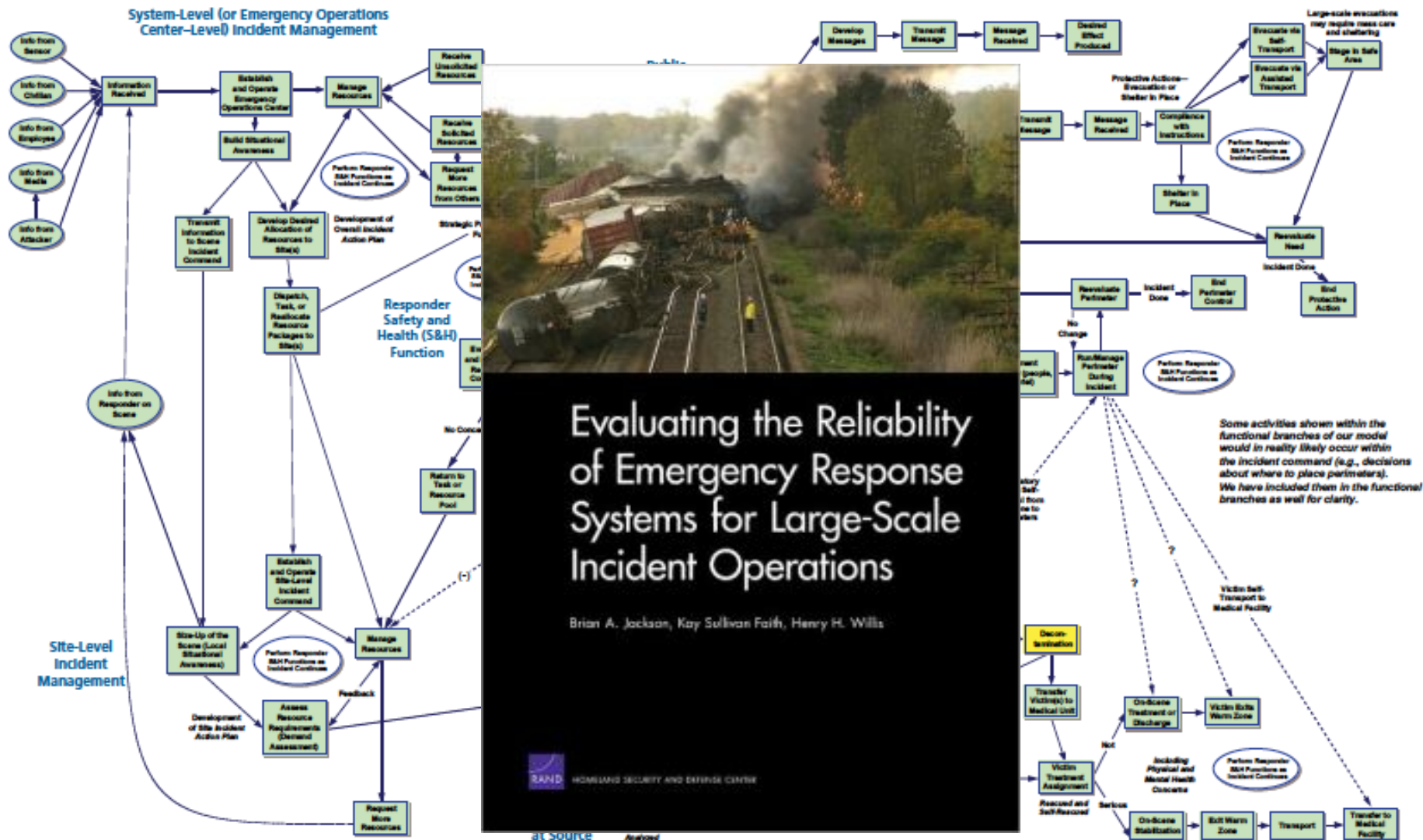Melinda Moore, MD, MPH; Anita Chandra, DrPH, MPH; Kevin C. Feeney

ABSTRACT

Objectives: Community resilience (CR) is emerging as a major public policy priority within disaster management and is one of two key pillars of the December 2009 US National Health Security Strategy. However, there is no clear agreement on what key elements constitute CR. We examined exemplary practices from international disaster management to validate the elements of CR, as suggested by Homeland Security Presidential Directive 21 (HSPD-21), to potentially identify new elements and to identify practices that could be emulated or adapted to help build CR.

Methods: We extracted detailed information relevant to CR from unpublished case studies we had developed previously, describing exemplary practices from international natural disasters occurring between 1985 and 2005. We then mapped specific practices against the five elements of CR suggested by HSPD-21.

Results: We identified 49 relevant exemplary practices from 11 natural disasters in 10 countries (earthquakes in Mexico, India, and Iran; volcanic eruption in Philippines; hurricanes in Honduras and Cuba; floods in Bangladesh, Vietnam, and Mozambique; tsunami in Indian Ocean countries; and typhoon in Vietnam). Of these, 35 mapped well against the five elements of CR: community education, community empowerment, practice, social networks, and familiarity with local services; 15 additional practices were related to physical security and economic security. The five HSPD-

Applied systems analysis

Conducted financial analysis

The Rising Cost of Flood Insurance

Effects on New York City After Hurricane Sandy

On the anniversary of Hurricane Sandy, many in New York City are still struggling to rebuild their homes, businesses, and lives. A year after the storm, they have learned that their recovery faces a new hurdle: changes in the flood insurance market that are likely to bring about much higher premiums for many residents living near the coast. How bad is the news? What can be done in response?

RAND's Center for Catastrophic Risk Management and Compensation

Led key demonstration studies: Los Angeles County

- 16 Los Angeles County Neighborhoods
- (8 Preparedness, 8 Resilience)

COUNTY OF LOS ANGELES
EMERGENCY SURVIVAL GUIDE
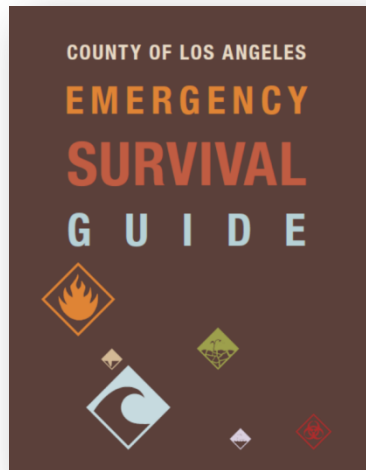
Usual Preparedness
Usual coalition with traditional emergency planners
Use of preparedness tools (e.g., "brown book")

Los Angeles County Community Disaster Resilience Project (LACCDR)

Community Resilience Pilot Project Launch Meeting

January 30, 2013
10:00a.m.—12:00 p.m.
Los Angeles Marriott Burbank Airport
2500 North Hollywood Way, Salon 6
Burbank, California 91505
Phone: 818-843-6000
Buffet breakfast will be served
Parking will be validated

This LACCDR Project launch meeting will provide important information about the Pilot Project, including funding and the upcoming meeting schedule and requirements.

Please include a total of 5 members from your community coalition or partnership to attend.

Please RSVP by January 24th, 2013 to :
Stella Fogleman
Director, Community Resilience
Emergency Preparedness and Response Program
(213) 637-3613
sfogleman@ph.lacounty.gov

Community Resilience
Resilience Team with diverse array of community organizations
Use of community resilience toolkit
Concerted focus on vulnerable populations
Use of enhanced asset mapping tools

Today's presentation

- Brief overview of RAND's resilience orientation

- RAND's community resilience portfolio

- Next steps

Next steps for resilience research and practice

- Explore how communities can balance resilience capacity and capability investments

- Fully integrate discussions among those focused on human resilience and infrastructure resilience
  - Workforce development
  - Systems analysis

Relevant websites

- www.rand.org/topics/community-resilience.html

- www.rand.org/resilence-in-action.html

- www.laresilience.org

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