



Informational Brief: Resources by Topic

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Once a month the CRA sends out a compiled list of some “new” resources. As the CRA becomes aware of resources individual announcements are shared with CRA members based on member profiles. To update your member profile please contact membership@CAresiliency.org. If you received this brief as a forward and would like to join or learn more please visit <http://caresiliency.org/membership/join>

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About the California Resiliency Alliance

The California Resiliency Alliance is a 501c3 non-profit empowering local and regional resiliency efforts through cross-sector information sharing and partnerships. Visit our [website](#) to learn more about our initiatives.

AIR QUALITY

Maps

AirNow - Air Pollution/Quality Maps for California

Environmental Protection Agency

Link: https://airnow.gov/index.cfm?action=airnow.local_state&stateid=5

CREDENTIALING

Communications Sector

Communications Worker Credentialing Requirements

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board;

National Cooperative Highway Research Program

Published: 2017; Length: 34 pages

Communications Worker Credentialing Requirements focuses on credentialing requirements needed for communications workers to physically access disaster-impacted areas to restore damaged wireline telecommunication networks.

Link: <https://www.nap.edu/catalog/24794/communications-worker-credentialing-requirements>

CRITICAL INFRASTRUCTURE

Information Sharing

Critical Infrastructure Threat Information Sharing Framework: A Reference Guide for the Critical Infrastructure Community

Department of Homeland Security

Published: October 2016; Length: 110 pages

This Framework is a resource to help critical infrastructure owners and operators, as well as other private sector, Federal, and State, local, tribal, and territorial (SLTT) government partners that share threat information, learn where they can turn, and in what circumstances, to both receive and report threat information.

Link: <https://www.dhs.gov/sites/default/files/publications/ci-threat-information-sharing-framework-508.pdf>

CYBER SECURITY

Guides

Digital Identity Guidelines

National Institute of Standards and Technology (NIST)

Published: June 2017; Length: 73 pages

These guidelines provide technical requirements for federal agencies implementing digital identity services and are not intended to constrain the development or use of standards outside of this purpose. The guidelines cover identity proofing and authentication of users (such as employees, contractors, or private individuals) interacting with government IT systems over open networks.

Link: <http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-63-3.pdf>

Digital Identity Guidelines: Enrollment and Identity Proofing

National Institute of Standards and Technology (NIST)

Published: June 2017; Length: 44 pages

These guidelines provide technical requirements for federal agencies implementing digital identity services and are not intended to constrain the development or use of standards outside of this purpose. This guideline focuses on the enrollment and verification of an identity for use in digital authentication. Central to this is a process known as identity proofing in which an applicant provides evidence to a credential service provider (CSP) reliably identifying themselves, thereby allowing the CSP to assert that identification at a useful identity assurance level.

Link: <http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-63a.pdf>

Digital Identity Guidelines: Authentication and Lifecycle Management

National Institute of Standards and Technology (NIST)

Published: June 2017; Length: 78 pages

These guidelines provide technical requirements for federal agencies implementing digital identity services and are not intended to constrain the development or use of standards outside of this purpose. These guidelines focus on the authentication of subjects interacting with government systems over open networks, establishing that a given claimant is a subscriber who has been previously authenticated.

Link: <http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-63b.pdf>

Digital Identity Guidelines: Federation and Assertions

National Institute of Standards and Technology (NIST)

Published: June 2017; Length: 48 pages

This document and its companion documents, SP 800-63, SP 800-63A, and SP 800-63B, provide technical and procedural guidelines to agencies for the implementation of federated identity systems and for assertions used by federations.

Link: <http://nvlpubs.nist.gov/nistpubs/SpecialPublications/NIST.SP.800-63c.pdf>

Reports

Foundational Cybersecurity Research: Improving Science, Engineering, and Institutions

National Academies of Sciences, Engineering, and Medicine; Division on Engineering and Physical Sciences; Computer Science and Telecommunications Board

Published: 2017; Length: 60 pages

Attaining meaningful cybersecurity presents a broad societal challenge. Its complexity and the range of systems and sectors in which it is needed mean that successful approaches are necessarily multifaceted. Moreover, cybersecurity is a dynamic process involving human attackers who continue to adapt. Despite considerable investments of resources and intellect, cybersecurity continues to pose serious challenges to national security, business performance, and public well-being.

Link: <https://www.nap.edu/catalog/24676/foundational-cybersecurity-research-improving-science-engineering-and-institutions>

2016 Internet Crimes Report

FBI - Internet Crime Complaint Center

Published: June 2017; Length: 28 pages

The 2016 Internet Crime Report highlights the IC3's efforts in monitoring trending scams such as Business Email Compromise (BEC), ransomware, tech support fraud, and extortion. In 2016, IC3 received a total of 298,728 complaints with reported losses in excess of \$1.3 billion.

Link: https://pdf.ic3.gov/2016_IC3Report.pdf

Plans

National Cyber Incident Response Plan

Department of Homeland Security

Published: October 2016; Length: 66 pages

The National Cyber Incident Response Plan (NCIRP or Plan) was developed according to the direction of PPD-41 and leveraging doctrine from the National Preparedness System to articulate the roles and responsibilities, capabilities, and coordinating structures that support how the Nation responds to and recovers from significant cyber incidents posing risks to critical infrastructure.

Link: https://www.us-cert.gov/sites/default/files/ncirp/National_Cyber_Incident_Response_Plan.pdf

EARTHQUAKES

Loss Estimates

Hazus® Estimated Annualized Earthquake Losses for the United States

FEMA; USGS, and the Pacific Disaster Center

Published: April 2017; Length: 78 pages

This study estimates seismic risk in select regions of the United States by using two interrelated risk indicators: 1) The annualized earthquake loss, which is the estimated long-term value of earthquake losses to the general building stock in any single year in a specified geographic area; and 2) The annualized earthquake loss ratio, which expresses estimated annualized loss as a fraction of the building inventory replacement value.

Link: https://www.fema.gov/media-library-data/1497362829336-7831a863fd9c5490379b28409d541efe/FEMAP-366_2017.pdf

ELECTRICAL GRID

Resilience

Enhancing the Resilience of the Nation's Electricity System

National Academies of Sciences, Engineering, and Medicine

Published: July 2017; Length: 282 pages

Americans' safety, productivity, comfort, and convenience depend on the reliable supply of electric power. The electric power system is a complex "cyber-physical" system composed of a network of millions of components spread out across the continent. The system's reliability and resilience can be improved but never made perfect. Thus, system owners, operators, and regulators must prioritize their investments based on potential benefits.

Report Link: <https://www.nap.edu/catalog/24836/enhancing-the-resilience-of-the-nations-electricity-system>

Report Highlights Link: <https://www.nap.edu/resource/24836/RH-grid-resilience.pdf>

EMERGENCY COMMUNICATIONS

Transportation Sector

Guidebook for Preparing Public Notification Programs at Airports

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; Airport Cooperative Research Program

Published: 2017; Length: 160 pages

Guidebook for Preparing Public Notification Programs at Airports offers standards and practices to help airport industry practitioners develop and implement effective programs for delivering both routine notifications as well as incident and emergency-related notifications. The guidance provides readers with the ability to customize their programs to match their unique circumstances.

Link: <https://www.nap.edu/catalog/24763/guidebook-for-preparing-public-notification-programs-at-airports>

Plans

Next Generation 9-1-1 Transition Plan

CalOES

Published: June 2017; Length: 95 pages

The goal of the NG9-1-1 Transition/Implementation Plan is to implement NG9-1-1 service statewide in a phased approach that will ensure that every Public Safety Answering Points receives the complete range of NG9-1-1 services.

Link: <http://www.caloes.ca.gov/PublicSafetyCommunicationsSite/Documents/NextGeneration9-1-1TransitionPlans.pdf>

FACILITY SECURITY

First Responders & Security

Counter-IED Resources Guide

Department of Homeland Security Office for Bombing Prevention

Published: March 2017; Length: 12 pages

Link: https://tripwire.dhs.gov/IED/resources/docs/OBP_Counter-IED_Resources_Guide.pdf

FACILITY SECURITY (continued)

Schools

Safer, Stronger, Smarter: A Guide to Improving School Natural Hazard Safety

FEMA

Published: June 2017; Length: 282 pages

This Guide provides up-to-date, authoritative information and guidance that schools can use to develop a comprehensive strategy for addressing natural hazards.

Link: https://www.fema.gov/media-library-data/1498653710687-e1cf5f0c272c5380614978674e814c30/FEMA_p1000_June2017_508.pdf

A Toolkit for K-12 Learning Institutions and Law Enforcement: Securing Our Schools

Secure Schools Alliance; Police Foundation

Published: May 2017; Length: 28 pages

This brief expands upon some of the roles and responsibilities of each support stakeholder, and can serve as the beginning of community-wide discussions related to school safety and security.

Link: https://secureschoolresources.org/wp-content/uploads/2017/05/PF-Secure-Schools-Brief-2_Final-1-1-1.pdf

FAMILY ASSISTANCE CENTERS

Transportation Sector

Establishing a Coordinated Local Family Assistance Program for Airports

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; Airport Cooperative Research Program

Published: 2017; Length: 145 pages

Establishing a Coordinated Local Family Assistance Program for Airports provides guidance to airport personnel when assisting victims and families affected by an aviation disaster. This guidebook incorporates practices for planning an effective response while coordinating with different partners. The guidance is adaptable to both general aviation and commercial service airports of any size.

Link: <https://www.nap.edu/catalog/24765/establishing-a-coordinated-local-family-assistance-program-for-airports>

HAZARD ASSESSMENTS

Financial Sector

Semiannual Risk Perspective From the National Risk Committee

Office of the Comptroller of the Currency

Published: Spring 2017; Length: 23 pages

The OCC's Semiannual Risk Perspective addresses key issues facing banks, focusing on those that pose threats to the safety and soundness of banks and their compliance with applicable laws and regulations. This report presents data in four main areas: the operating environment, bank performance, trends in key risks, and regulatory actions.

Link: <https://www.occ.gov/publications/publications-by-type/other-publications-reports/semiannual-risk-perspective/semiannual-risk-perspective-spring-2017.pdf>

Schools

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Sea Level Rise

County of San Mateo Sea Level Rise Vulnerability Assessment - DRAFT

County of San Mateo, Sea Change San Mateo County

Published: April 5, 2017; Length: 291 pages

This Vulnerability Assessment report serves as the first step of the Sea Change SMC Initiative, whose purpose is to increase the resilience of the County's economy, environment, and communities through collaborative planning and projects.

Link: <http://seachangesmc.com/current-efforts/vulnerability-assessment/>

INFECTIOUS DISEASES & PANDEMICS

MAPS

Rx Open: Mapping Open Pharmacies During Disasters

Healthcare Ready

Rx Open helps patients find nearby open pharmacies in areas impacted by disaster. Combining multiple data feeds from the pharmaceutical industry, Rx Open displays the precise location on Google Maps of open pharmacies, closed pharmacies, and those whose status is unknown.

Link: <https://www.healthcareready.org/rxopen>

Public Health

The Public Health Emergency Preparedness Landscape: Findings from the 2016 Preparedness Profile Assessment

National Association of County & City Health Officials

Published: June 2017; Length: 28 pages

This document presents the results of the preparedness assessment, as well as implications for the future and recommendations.

Link: http://nacchopreparedness.org/wp-content/uploads/2017/07/2016-Preparedness-Profile-Report_FINAL.pdf

Transportation Sector

Public Transit Emergency Preparedness Against Ebola and Other Infectious Diseases: Legal Issues

National Academies of Sciences, Engineering, and Medicine

Published: 2017; Length: 57 pages

Public Transit Emergency Preparedness Against Ebola and Other Infectious Diseases: Legal Issues examines responses to infectious disease epidemics and identifies legal issues that may be confronted by transit agencies. It considers federal and state laws and available court decisions affecting transit agencies' responses to infectious disease outbreaks, including potential cohesiveness among transit agencies' procedures and federal and state guidance.

Link: <https://www.nap.edu/catalog/24795/public-transit-emergency-preparedness-against-ebola-and-other-infectious-diseases-legal-issues>

INFORMATION SHARING

Critical Infrastructure

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NATIONAL SECURITY

Summit/Workshop Proceedings

Social and Behavioral Sciences for National Security: Proceedings of a Summit

National Academies of Sciences, Engineering, and Medicine

Published: 2017; Length: 80 pages

In order to understand how knowledge from science can be directed and applied to help the intelligence community fulfill its critical responsibilities, the National Academies of Sciences, Engineering, and Medicine will undertake a 2-year survey of the social and behavioral sciences. To launch this discussion, a summit designed to highlight cutting-edge research and identify future directions for research in a few areas of the social and behavioral sciences was held in October 2016. This publication summarizes the presentations and discussions from the summit.

Link: <https://www.nap.edu/catalog/24710/social-and-behavioral-sciences-for-national-security-proceedings-of-a>

Countering Violent Extremism Through Public Health Practice: Proceedings of a Workshop

National Academies of Sciences, Engineering, and Medicine

Published: 2017; Length: 130 pages

To explore the application of health approaches in community-level strategies to countering violent extremism and radicalization, the National Academies of Sciences, Engineering, and Medicine held a public workshop in September 2016. This publication summarizes the presentations and discussions from the workshop.

Link: <https://www.nap.edu/catalog/24638/countering-violent-extremism-through-public-health-practice-proceedings-of-a>

PUBLIC-PRIVATE PARTNERSHIPS

Transportation Sector

Public Transportation Guidebook for Small- and Medium-Sized Public-Private Partnerships

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; Transit Cooperative Research Program

Published: 2017; Length: 113 pages

Public Transportation Guidebook for Small- and Medium-Sized Public-Private Partnerships (P3s) serves as a resource to explore, evaluate, initiate, plan, and implement small- and medium-sized public-private partnership (P3) initiatives. The guidebook addresses why and when to consider P3s for small- and medium-sized initiatives, what types of initiatives may be undertaken, and how to effectively undertake these initiatives.

Link: <https://www.nap.edu/catalog/24754/public-transportation-guidebook-for-small-and-medium-sized-public-private-partnerships>

Schools

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RESOURCE PRIORITIZATION

Webinar Recordings

Conflict Management in Times of Competing Resources and Priorities

Centers for Disease Control and Prevention (CDC)

Published: May 23, 2017; Length: 1 hour 16 min

This webinar, co-sponsored by the Society of Healthcare Epidemiology of America, discusses resource management and priority setting during infectious disease outbreaks. It identifies the stakeholders involved in epidemic preparedness; the relationship to infection prevention and healthcare epidemiology leaders; areas of limited resources; and the importance of advanced and systematic planning to avoid conflict.

Link: <https://disasterlit.nlm.nih.gov/record/15079>

SEA LEVEL RISE

Vulnerability Assessment

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Link: <http://seachangesmc.com/current-efforts/vulnerability-assessment/>

Rising Seas in California: An Update on Sea-Level Rise Science

California Ocean Protection Council Science Advisory Team

Published: April 2017; Length: 71 pages

Update to the 2013 *State of California Sea-Level Rise Guidance Document* to reflect recent advances in ice loss science and projections of sea-level rise

2017 Update Link: <http://www.opc.ca.gov/webmaster/ftp/pdf/docs/rising-seas-in-california-an-update-on-sea-level-rise-science.pdf>

2013 Guidance Document: [http://www.opc.ca.gov/webmaster/ftp/pdf/docs/](http://www.opc.ca.gov/webmaster/ftp/pdf/docs/2013_SLR_Guidance_Update_FINAL1.pdf)

[2013_SLR_Guidance_Update_FINAL1.pdf](http://www.opc.ca.gov/webmaster/ftp/pdf/docs/2013_SLR_Guidance_Update_FINAL1.pdf)

TRANSPORTATION LOGISTICS

Logistics

Guide for Identifying, Classifying, Evaluating, and Mitigating Truck Freight Bottlenecks

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; National Cooperative Highway Research Program

Published: 2017; Length: 122 pages

The report provides transportation agencies state-of-the-practice information on identifying, classifying, evaluating, and mitigating truck freight bottlenecks using truck probe data rather than traditional travel demand models. The report embraces a broad definition of truck freight bottlenecks as any condition that acts as an impediment to efficient truck travel, whether the bottleneck is caused by infrastructure shortcomings, regulations, weather, or special events.

Link: <https://www.nap.edu/catalog/24807/guide-for-identifying-classifying-evaluating-and-mitigating-truck-freight-bottlenecks>

WEATHER

Climate Change

Attribution of Extreme Weather Events in the Context of Climate Change

National Academies of Sciences, Engineering, and Medicine

Published: 2016; Length: 166 pages

As climate has warmed over recent years, a new pattern of more frequent and more intense weather events has unfolded across the globe. Climate models simulate such changes in extreme events, and some of the reasons for the changes are well understood. Warming increases the likelihood of extremely hot days and nights, favors increased atmospheric moisture that may result in more frequent heavy rainfall and snowfall, and leads to evaporation that can exacerbate droughts.

Link: <https://www.nap.edu/catalog/21852/attribution-of-extreme-weather-events-in-the-context-of-climate-change>

Transportation Sector

Managing Extreme Weather at Bus Stops

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; Transit Cooperative Research Program

Published: 2017; Length: 68 pages

Managing Extreme Weather at Bus Stops documents current practices of transit systems to determine methods and procedures used for maintaining transit stops and associated infrastructure during and following such weather events. This synthesis provides a state-of-the-practice report on transit systems' management of extreme weather events; associated planning; management responsibilities; efforts to respond; standards and specifications; associated legal claims; and communication with customers.

Link: <https://www.nap.edu/catalog/24806/managing-extreme-weather-at-bus-stops>

Water Sector

A Watershed Approach to Mitigating Stormwater Impacts

National Academies of Sciences, Engineering, and Medicine; Transportation Research Board; National Cooperative Highway Research Program

Published: 2017; Length: 118 pages

A Watershed Approach to Mitigating Stormwater Impacts provides a practical decision-making framework that will enable state departments of transportation (DOTs) to identify and implement offsite cost-effective and environmentally beneficial water quality solutions for stormwater impacts when onsite treatment and/or mitigation is not possible within the right-of-way.

Link: <https://www.nap.edu/catalog/24753/a-watershed-approach-to-mitigating-stormwater-impacts>

WILDFIRES

MAPS

National 7-Day Significant Fire Potential Map

National Interagency Coordination Center; National Interagency Fire Center

Link: <http://psgeodata.fs.fed.us/forecast/#!/outlooks?state=map>

WHOLE COMMUNITY

Reports

The Role of Groceries in Response to Catastrophes

CNA

Published: January 2017; Length: 114 pages

This research began with the hypothesis that for the grocery sector to serve as a significant source of nutrition following a catastrophic event¹, the federal government would need to undertake some level of strategic procurement. The purpose of the study was to examine issues of sizing and feasibility for such procurements. Late in the research process, it became clear that data were actually confirming a sort of null hypothesis. Such procurements are unnecessary because the current shelf- stable stocks held by the grocery industry are much larger than anticipated.

Link: https://www.cna.org/cna_files/pdf/Final-The-Role-of-Groceries-in-Response-to-Catastrophe.pdf

Databases

Database of Research on the Human Impacts of the 2010 Deepwater Horizon Oil Spill

RAND, Consortium for Resilient Gulf Communities

Published: 2017

Database that provides information on research into the human impacts of the Deepwater Horizon oil spill. The objective of the database is to help researchers recognize what gaps still exist in this domain and where additional research efforts may be needed.

Link: <https://www.resilientgulf.org/human-impacts-research-database/>

WHOLE COMMUNITY (continued)

Tools

Pedestrian Evacuation Analyst Tool

USGS, ArcGIS

The Pedestrian Evacuation Analyst is an ArcGIS extension that estimates how long it would take for someone to travel on foot out of a hazardous area that was threatened by a sudden event such as a tsunami, flash flood, or volcanic lahar. It takes into account the elevation changes and the different types of landcover that a person would encounter along the way.

Link: <https://www.usgs.gov/software/pedestrian-evacuation-analyst-tool>