

Scife

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Reduce disaster risk. Step into a safer world.

As the number of people affected by disasters continues to grow worldwide, so does our track record of protecting communities with the most reliable and timely access to life-saving information. Working together with countries throughout the world, Pacific Disaster Center (PDC) utilizes its research, science, and technology to help organizations with disaster risk reduction (DRR), assessment of potential hazard impacts, and the anticipation of emerging threats.



2017

30+
worldwide DRR
partner projects



485+ Million

People living within national DRR project areas

475 Million (98%) Ranked Low Resilience



National Early Warning and Decision Support Projects



National Disaster Preparedness Baseline Assessment Projects



10 35+

Disaster Preparedness and Response Exercises worldwide

Participating Nations



10

Major U.S. Government Technology and Training Projects Supporting Preparedness and Response



5

National Disaster Preparedness Baseline Assessment (NDPBA) projects



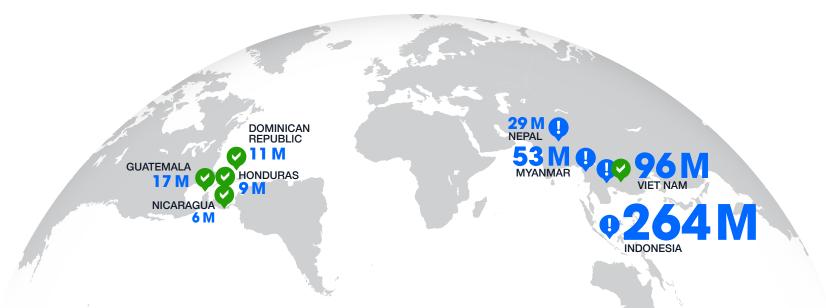
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National Early Warning and Decision Support Projects



5

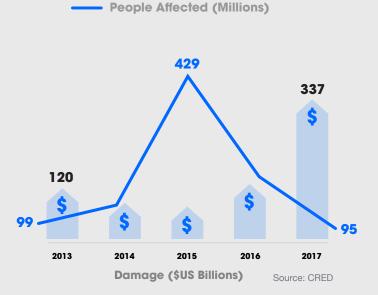
Regional Risk and Vulnerability Assessment (RVA)



Natural Disaster Impacts Worldwide

Information saves lives.

Expanded access to critical information and services:



Public downloads of Disaster Alert™

160%
Professional users of DisasterAWARE®

140%
Avg annual increase in events supported

Products requested by partners to aid response

Social media access to critical hazard and response info:

1 1 833% 80k followers

82%6k followers

Record-breaking Triple Hurricane Response

Situation **Overview**



Hurricane Harvey

\$125 Billion in Damage

Affected: 580,000 Exposed: 17.8 M



Hurricane Irma

\$64.8 Billion in Damage

Affected: 10+ M Exposed: 16.2 M



Hurricane Maria

\$96 Billion in Damage

Affected: 920,000 Exposed: 2.3 M

PDC in Action

PDC joined forces with local, federal, and international authorities to help better prepare and plan for protecting vulnerable populations during the most severe back-to-back hurricane event ever recorded in the Atlantic during a single month. PDC leveraged its DisasterAWARE platform and the largest collection of global, scientifically verified geospatial data and modeling tools to support civil and military agencies with assessing potential risk and hazard impacts. Direct pre- and post-impact situational analysis support was also provided.

155+ Products

Providing pre- and post-impact analysis

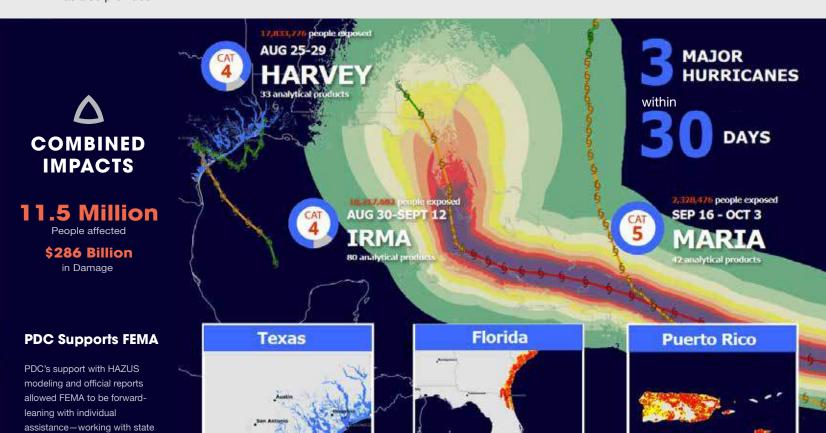
24-hour Support

with on-site support for JTF-Bravo JOC and SOUTHCOM CAC



JTF-Bravo sincerely appreciated the HADR [Humanitarian Assistance and Disaster Relief] decision support information provided by the Pacific Disaster Center during Hurricane Irma response. It has been timely and valuable to current operations.

Eric Yarrell, Lt Col, USAF, DCO JTF-Bravo



Some of the organizations supported



FEMA

and local officials to support badly impacted communities and quickly provide financial support to individuals and families.



Joint Staff



JTF-Bravo







DTRA









Bahamas NEMA

SOUTHCOM

Florida Emergency Management

United

Dominican Republic

Houston



Disaster AWARE®

Custom Early Warning and Decision Support Solutions

for early warning, hazard monitoring, and decision support built on our industry-leading disaster risk intelligence platform, DisasterAWARE.



(2013-2017)

Projects

Regional

Project

International **Project**

442+ Million

People living within national project areas

100% Ranked Low Resilience

3-year

Process Overview



Ongoing project support provided by USAID/OFDA.



Continued national and provincial institutionalization and expansion of the operational use of capabilities with crowd-sourced hazard and critical

Quick Facts:

948 staff trained

264+ M citizens served

Fully Operational System*
Phase II institutionalization at national level and throughout selected provinces

Government of Viet Nam I VinAWARE

Continued capacity development through VinAWARE training and exercise. Expanded dam and reservoir monitoring as well as flood and storm early warning system capabilities.

Quick Facts:

248 staff trained

6.7+ M citizens served

Fully Operational System*
Institutionalization and support phase

Government of Myanmar | DMRS Expansion

Initiated a new project to increase capacity for effective national early warning and decision making by leveraging the AHA Centre's regional DMRS software. Developed SOPs, provided training, and incorporated national data.

Quick Facts:

84 staff trained

Initial System Concept Design*

Government of Nepal | NepalAWARE

Prototyped NepalAWARE and developed concept of operations (CONOPS) for it use within Nepal's GIS data committee to expand national data

Quick Facts:

84 staff trained

29.3+ M citizens served Fully Operational System Phase II begins in 2018

U.S. Government | Global Biosurveillance Portal

PDC and the Joint Program Executive Office expanded earlier BioServ program to field the G-BSP map within the portal. Included new biological / medical data sources and health

Quick Facts:

84 staff trained **Final Testing Phase**

Disaster AWARE®

Reduce disaster risk. Make better decisions faster.

DisasterAWARE is the only platform that provides early warning, hazard monitoring, and impact estimation for 18 hazard types, all in one system, free to disaster professionals worldwide.

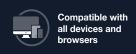


- Worldwide hazard monitoring and early warning
- Pre-impact analysis with damage and loss estimation, population risk and vulnerability, anticipated needs analysis
- Post-impact decision tools with field observation data, multi-agency response collaboration, damage assessments

What's new

DisasterAWARE Quantum 6.0 Major Release

Includes increased performance and cyber security, simplified SMS messaging and alerts with quick links to hazard details, enhanced monitoring, administration, and an improved user interface.

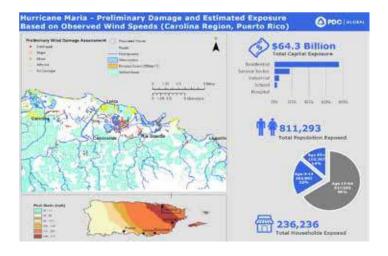






All Hazard Impact Model (AIM)™

PDC released a brand new automated model to help assess capital exposure and population exposure, including at-risk and vulnerable populations. The model utilizes PDC's proprietary exposure data as well as its risk and global vulnerability data.



Automated Hazard Analysis

PDC developed new hazard analysis capabilities that are automatically performed with each new forecast advisory and released through DisasterAWARE. New products provide timely and accurate analytical insight 24/7.

3 New Products







Volcanic Ash Cloud



Tsunami Travel Time





Public App Usage



Disasters happen fast. We alert you faster.

National Disaster Preparedness

Baseline Assessment (NDPBA) Program







Because PDC's National Disaster Preparedness
Baseline Assessment program provides more than
just an assessment, it is growing in popularity
among some of the world's most disaster-prone
countries. Through the program, countries are
provided with a sustainable system for accessing,
updating, understanding, and applying critical risk
information in decision making at the national,
subnational, and local level. As an NDPBA partner,
countries also receive ongoing PDC support for
mapping, modeling, response, and other
subject matter expertise.

Projects (2016)
41+
Million

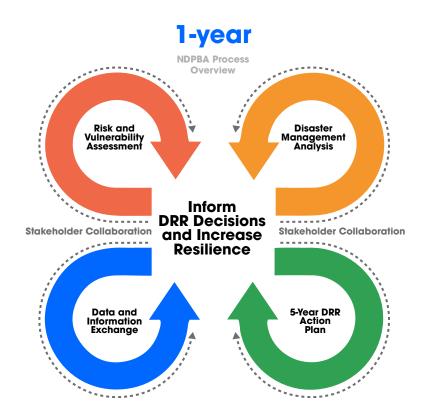
Projects (2017)
139
Million

Projects (2018-2019)
480+
Million

People living within project areas

74% (480+ Million)

Ranked Low Resilience



Featured Partner Highlight

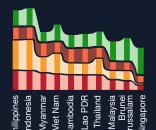




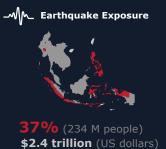
ASEAN and AHA Centre Collaboration

Following more than a decade of collaboration to enhance disaster management capacities in the Southeast Asia region, PDC and AHA Centre signed an official Memorandum of Intent in 2017. Intended to strengthen the two centers' ongoing partnership in advancing Disaster Risk Reduction and regional cooperation, the memorandum has already resulted in the achievement of new milestones-most notably, a regional risk assessment encompassing ASEAN's 10 member states.

ASEAN Risk Assessment



Multi-hazard Risk



A special thanks to our many other partners

We partner with so many outstanding organizations—too many to list—all of whom contribute greatly to the success of PDC and for whom we are grateful.

- ⇒ Caribbean Disaster Emergency Management Agency (CDEMA) ⇒ United Nations Office for the
- → Federal Emergency Management Agency (FEMA)
- ➡ United States Agency for International Development (USAID)
- Coordination of Humanitarian Affairs
- Joint Program Executive Office (JPEO-CBD)
- ⇒ U.S. Department of Defense (PACOM, NORTHCOM, SOUTHCOM, AFRICOM)

Exercises and Exchanges Supported in 2017



- 1. Guatemala: Fuerzas Aliadas Humanitarias (FA-HUM) | Catastrophic / Complex Disaster
- 2. Hawaii: Makani Pahili Statewide Exercise | Hurricane
- 3. Poland: NATO Coalition Warrior Interoperability Exercise
- 4. Bangladesh: Pacific Resilience Disaster Response Exercise and Exchange | Earthquake / Tsunami
- 5. Oregon: U.S.-China Disaster Management Exchange | Earthquake
- 6. Viet Nam: Lower Mekong Initiative (LMI) Disaster Response Exercise and Exchange
- 7. Indonesia: Pacific Partnership Exercise Planning

2017 Select Conferences and Workshops

APEC Emergency Preparedness Working Group

ASEAN Strategic Policy Dialogue

PACOM Humanitarian Assistance and Disaster Relief Geospatial Intelligence

NATO Crisis Disaster Response Center of Excellence

INFORM Annual Global Partners Meeting

OpenStreetMap GeoWeek

CDEMA 10th Caribbean Conference on Comprehensive Disaster Management

SOUTHCOM DEIC Food Security and Climate Change Conference

NASA Summit: Strengthening Disaster Risk Reduction Across the Americas

Safer word . • @PDC_Global f /PDCGlobal





