Data to drive decisions: How can research inform philanthropic giving?

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CENTER FOR DISASTER PHILANTHROPY
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#CDP4Recovery
HOW TO PARTICIPATE

Submit questions.
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Land Acknowledgment

“Acknowledgment is a simple, powerful way of showing respect and a step toward correcting the stories and practices that erase Indigenous people’s history and culture and toward inviting and honoring the truth.”

https://usdac.us/nativeland

CDP’s Land Acknowledgment is inspired by Dawn Knickerbocker, Native Americans in Philanthropy.
GOALS

At the end of the webinar, funders will:

1. Have an increased understanding of data sources and how this is useful for decision-making.

2. Develop an enhanced understanding of what is available to guide their giving.

3. Build a heightened commitment to collect, analyze and share information.

Photo Credit: ACAPS
What is data?

**Data:**
Unorganized facts and figures.

**Information:**
Contextualized, categorized, calculated and condensed data.

**Knowledge:**
"Fluid mix of framed experience, values, contextual information, expert insight and grounded intuition that provides an environment and framework for evaluating and incorporating new experiences and information.

Image credit: The Content Philosopher
Speakers

Thank you to our guests for joining us today.

#CDP4Recovery

Cari Cullen
Director, Midwest Early Recovery Fund
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@CariLoganCullen

Dr. Andrew Schroeder
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EHF’s Journey in Using “Real Time” Data to Inform Strategy During Two Disasters: Hurricane Harvey and COVID-19

In a messy environment, need to weigh tradeoffs between responding emotionally and quickly vs. being intentional and thoughtful.

It is important to understand what others are responding to the disasters. Are the needs and gaps being addressed? What value do we bring to the table?

See our engagement within a larger eco-system effort. How could we complement others’ efforts? Is there opportunities to collaborate?

Depending on the nature of these disasters, we have used various tools (data/research grantmaking, convening, engagement, capacity building).

It is important to understand the time limited nature of our engagement. Need to assess when to turn our attention back to our strategic plan priorities.
Cari Cullen

Director, Midwest Early Recovery Fund
Center for Disaster Philanthropy

@CariLoganCullen
#CDP4Recovery
Key Indicators for Midwest Early Recovery Fund

Impact Indicators
What vulnerabilities and barriers were highlighted or emerged as a result of the disaster that we should consider?

Vulnerability Indicators
What are the potential barriers to recovery, based on the pre-existing disparities in the community, that we should consider?
- Density, isolation, population, composition
- Social, environmental and health factors
- Land use, economy and agriculture
- History of disaster

Capacity Indicators
What capacity/assets does the community have for recovery?

Photo above by Dave Kaup, REUTERS/Alamy Stock Photo.
Dr. Andrew Schroeder
Vice President of Research and Analysis
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Data-Driven Decision Making

1. Identify the problem
2. Establish decision criteria
3. Weigh decision criteria
4. Generate alternatives
5. Evaluate the alternatives
6. Choose the best alternatives
7. Implement the decision
8. Evaluate the decision

Poland: Population density change pre-crisis (Feb 8-19) to current (Mar 21-30)

CrisisReady GFDRR

Difference in % change
-0.9 - 9.9
1.0 - 2.3
2.4 - 3.7
3.8 - 6.6

Source: GADM, Data for Good at Meta

Contact & feedback: communications@crisready.org
mapped by Shanyue Jia
Complex Emergencies vs. Disasters
Use of Survey, Mapping and Economic Analysis

Statewide and Regional Polling Projects Assessing Impact, Attitude and Outlook of Harvey and COVID-19

“Real Time” Mapping Efforts Linking Harvey and COVID-19 Data with Social Vulnerability Index

Economic Analysis of COVID-19 Related Hospitalizations and Deaths on Health Disparities of Black and Hispanic Texans

Use of Research and Mapping Data to Inform Grant-making Strategy and Inform Policy Discussion
Mapping Areas of High Need and High Vulnerability

Map: Total Number of FEMA Applications by Census Block Group in Harris County

Darker red areas had the most number of FEMA applications

Map: Social Vulnerability by Census Tract in Harris County

Darker purple areas have higher social vulnerability
Mapping Analysis #1: A Real-Time Effort to Inform the One Star Foundation’s COVID-19 Relief Fund in 2020-21

Public Health Indicators:
- COVID-19 Related Hospitalizations
- COVID-19 Related Deaths

Resiliency Indicators:
- CDC’s Social Vulnerability Index
- Unemployment Statistics
- Access to a local philanthropic fund
No data without story. No story without data.

Data should not shape our interactions and decisions absent of the faces and stories of those living in community and with lived experience.

- Use data as a highlighter — not a sharpie or a checkbox.
- Use data and story to gut check assumptions and reveal biases.
- Use story and relationship to see what is invisible in the data and provide context.
- Use data and story to empower and advocate alongside communities and organizations. Whenever possible give it away.
Data as a “Translational” Social Relation

- Cholera Case Data
- Cholera Endemicity Studies
- Remotely Sensed Flood Imagery
- Weather / Climate Data
- High-Resolution Settlement Data
- Movement Dynamics Data

Cholera in Mozambique

We modeled cholera outbreak risk based on four measures:
1) Gravity model risk index: In the gravity (diffusion) model, we assume that the volume of travel between two pairs of districts is based on the population size of the two districts and the geodesic distance between the districts. The risk index calculates a weighted average of the simulated travel from all pairs that reported cases in the previous week, with the weights determined by the proportion of cases for each reporting district.

Input the number of cases in the past week to update the gravity model.

High resolution population data comes from Facebook.

2) Flooding risk index:
Cyclone Kenneth: We used reported flooding data from here and calculated the percent of each district with flooding.

3) Annual cholera incidence: This risk index is based on modeled annual cholera incidence, based on previous cholera outbreak data and ecological data, from Lessler et al.

4) Exposure sensitivity index: This risk index is based on comparisons of cholera incidence between El Niño and non-El Niño years, from Moore et al.

We scaled all risk scores to be between zero and one. The maps display each risk score separately, as well as an average of the scores when multiple indices are selected.
Tools

Ask questions

Go to a smaller grocery store

A few on my list:

- CDC's Social Vulnerability Index (SVI)
- Headwaters Economics
- SparkMap
- The National Risk Index
- Community Commons

Dig in

Midwest Recovery Fund Assessment Platform
Some Key Steps in Communicating and Socializing the Survey and Mapping Findings

- Presented survey and mapping findings to governments, funders, community groups, community stakeholders
- Published blog articles in national and state blogsites, such as Health Affairs, Texas Medical Association, Understanding Houston
- Published newspaper op-eds in major newspapers calling attention to the findings
- Using Harvey data, partnered with State Relief Fund and CDP in engaging stakeholders to discuss relief and rebuilding priorities
- COVID economic analysis on health disparities informed advocacy strategies, op ed articles, and bill development to address health equity
- COVID maps and data dashboards have informed two major COVID grant-making strategies – relief effort and vaccine uptake - in Texas
Q & A

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NEXT STEPS AND ACTIONS

1. Don’t be intimidated by data.

2. Use freely available sources.

3. Ask the experts.
**Expert Resources**

**Disaster Philanthropy Playbook**
- Blogs, Issue Insights, Disaster Profiles, Weekly Disaster Updates

**Website**
- Special Reports
  - Measuring the State of Disaster Philanthropy
  - COVID-19 and Philanthropy
  - U.S. Household Disaster Giving Report

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**disasterphilanthropy.org**
OUR NEXT WEBINAR

Using Indigenous knowledge to prevent and respond to disasters
May 12, 2 p.m. ET/1 p.m. CT

disasterphilanthropy.org/events

Photo Credit: Wayuu Taya Foundation
Thank You

For additional information, contact:
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