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

Photo: Lukas Blazek on Unsplash

APRIL 14, 2022

CENTER FOR DISASTER PHILANTHROPY

Sally Ray

Director, Domestic Funds

Center for Disaster Philanthropy

@SallyRay51

#CDP4Recovery

Photo by Jason Leung on Unsplash

HOW TO PARTICIPATE

Submit questions.

Use Q & A box at the bottom of your screen.

Use #CDP4Recovery to tweet along.

Follow CDP: @funds4disaster

Complete the survey.

The link will open as you exit the webinar.

Look for the fully captioned webinar recording and summary at disasterphilanthropy.org.

Live captioning is available now via Zoom. Click on Closed Caption/Live Transcript to access it.

Thank you to our co-sponsors

This webinar is co-sponsored by:

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?

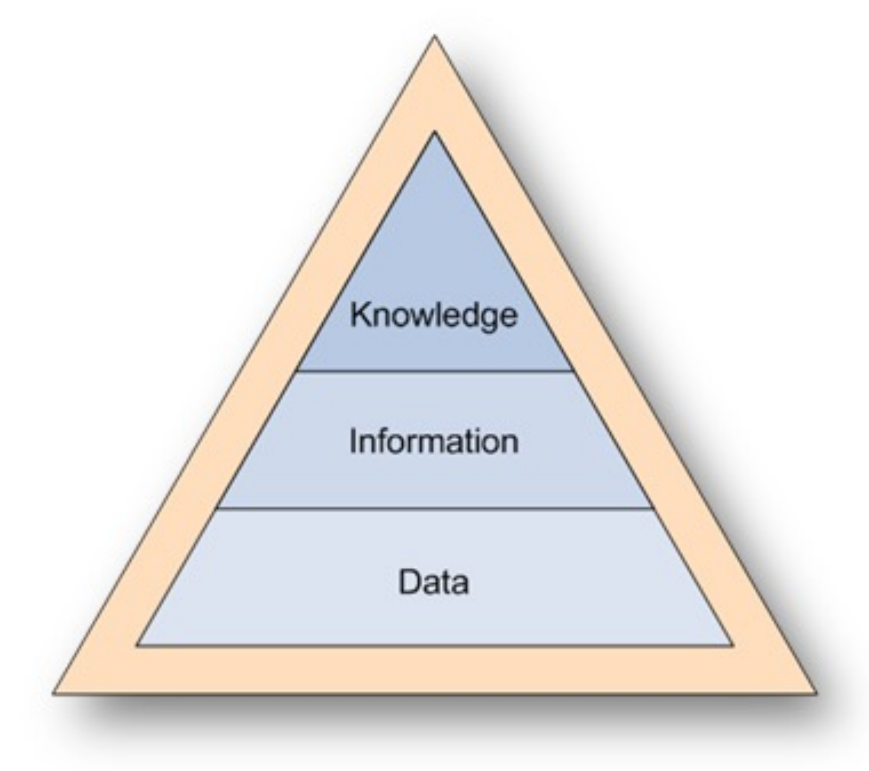


Image credit: The Content Philosopher

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

Speakers

Thank you to our guests for joining us today.

#CDP4Recovery

Cari Cullen

Director, Midwest Early Recovery Fund

CDP

@CariLoganCullen

Dr. Andrew Schroeder

Vice President of Research and Analysis

Direct Relief

@simulacrandrew

Dr. Shao-Chee Sim

Vice President for Research, Innovation and Evaluation

Episcopal Health Foundation

@shaochee_sim

Dr. Shao-Chee Sim

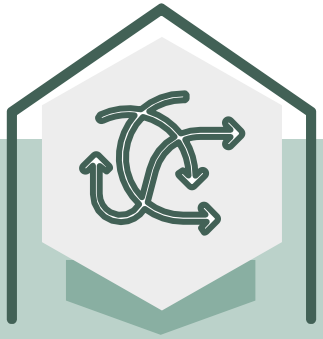
Vice President for Research, Innovation and Evaluation

Episcopal Health Foundation

@shaochee_sim

#CDP4Recovery

EHF's Journey in Using "Real Time" Data to Inform Strategy During Two Disasters: Hurricane Harvey and COVID-19

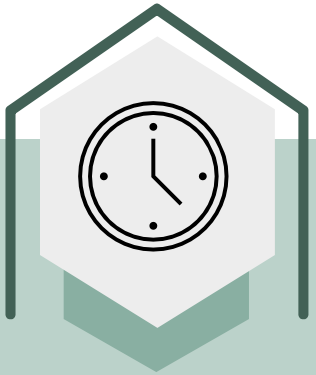


In a messy environment, need to weigh tradeoffs between responding **emotionally and quickly** vs. being **intentional and thoughtful**

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

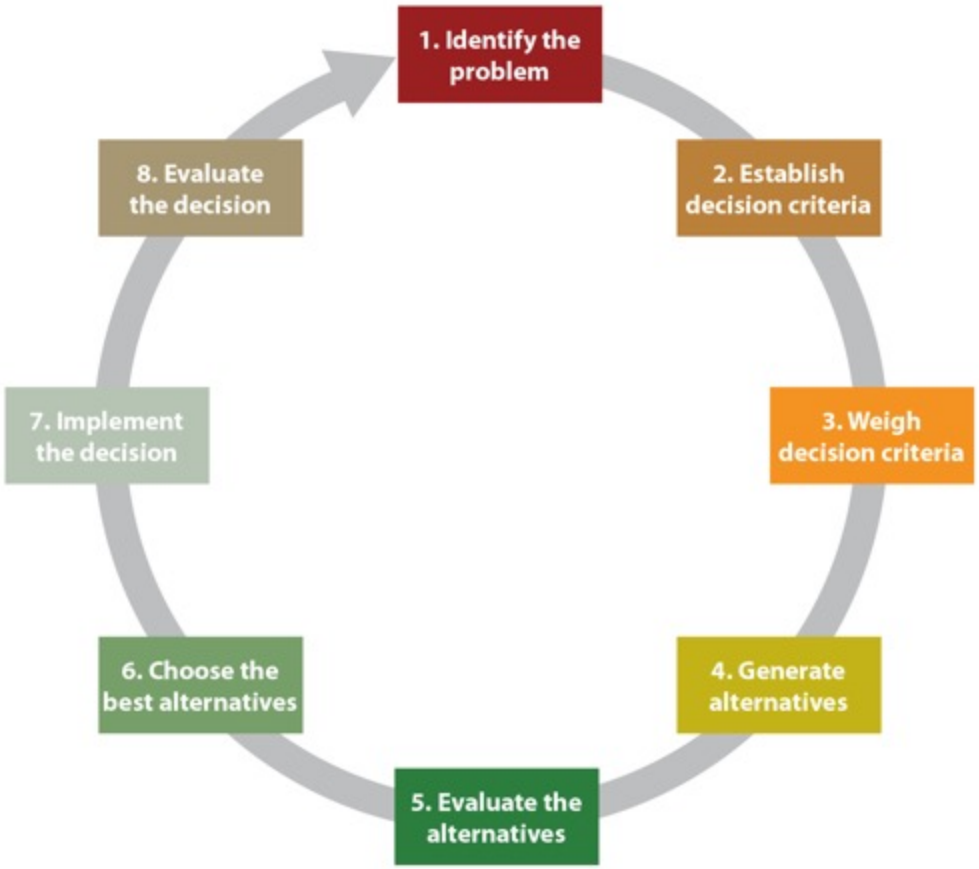
Vice President of Research and Analysis

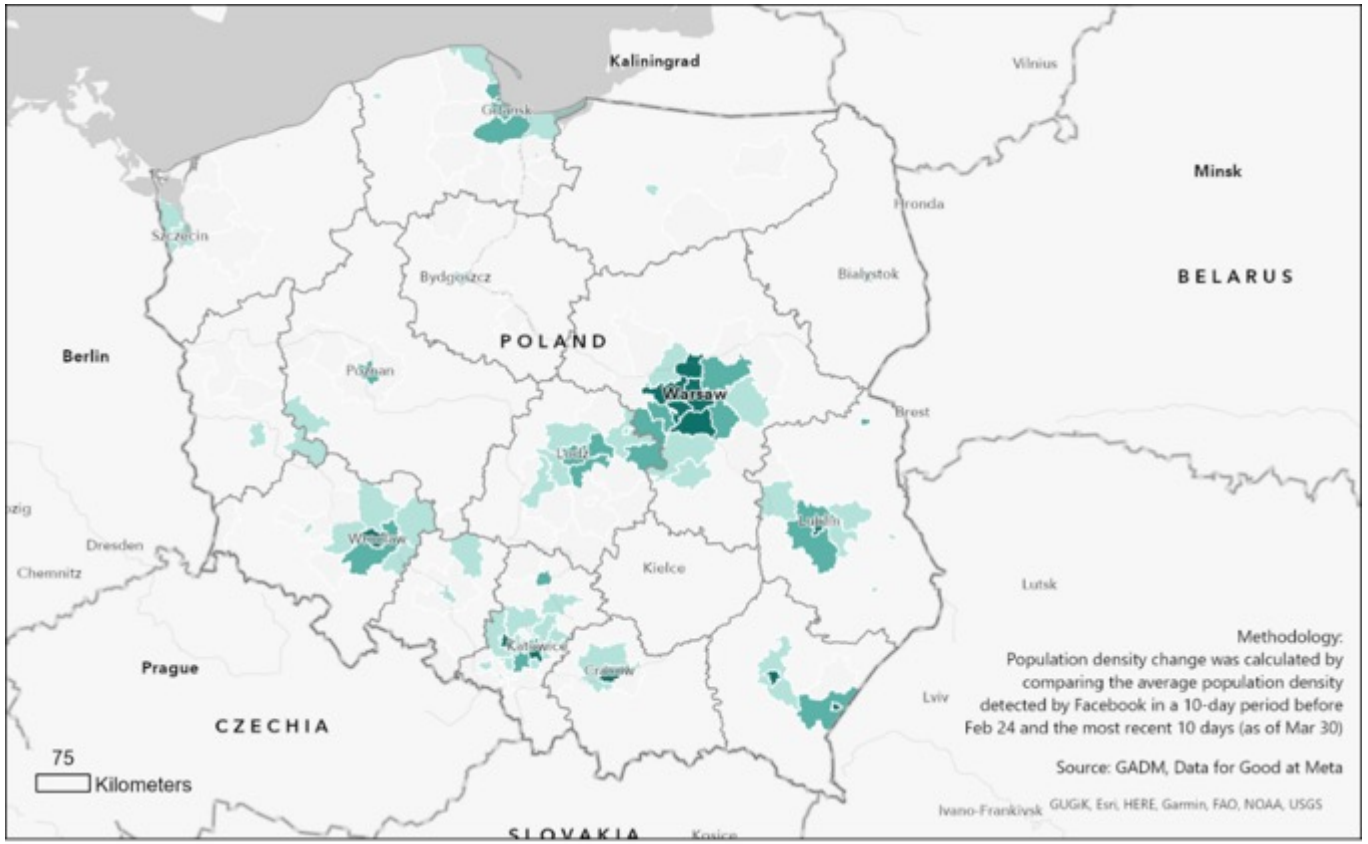
Direct Relief

@simulacrandrew

#CDP4Recovery

Data-Driven Decision Making





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

Difference in % change
- 0.0 - 0.9
- 1.0 - 2.3
- 2.4 - 3.7
- 3.8 - 6.6

Province (Level 1 Admin Unit)

CrisisReady GFDRR

Contact & Feedback:
communications@crisisready.io
mapped by Shenyue Jia

DirectRelief

Complex Emergencies vs. Disasters

THE VERGE TECH REVIEWS SCIENCE CREATORS ENTERTAINMENT VIDEO MORE

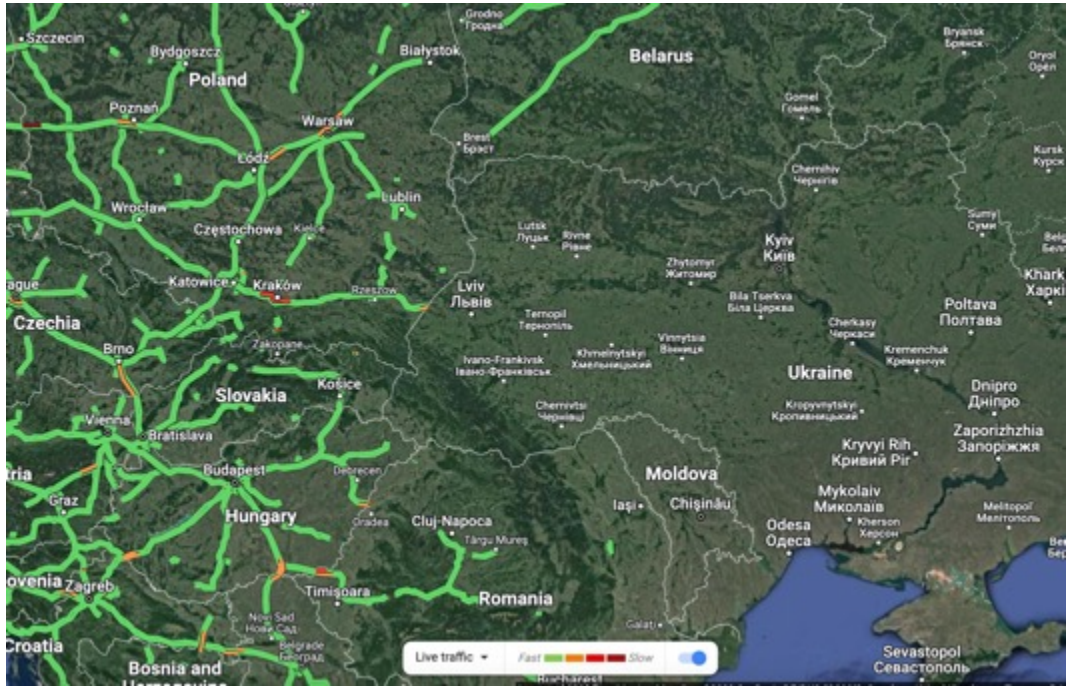
GOOGLE / US & WORLD / TECH

Google disables Maps traffic data in Ukraine to protect citizens

Google Maps data could be dangerous during the invasion

By James Vincent | Feb 28, 2022, 5:22am EST

SHARE

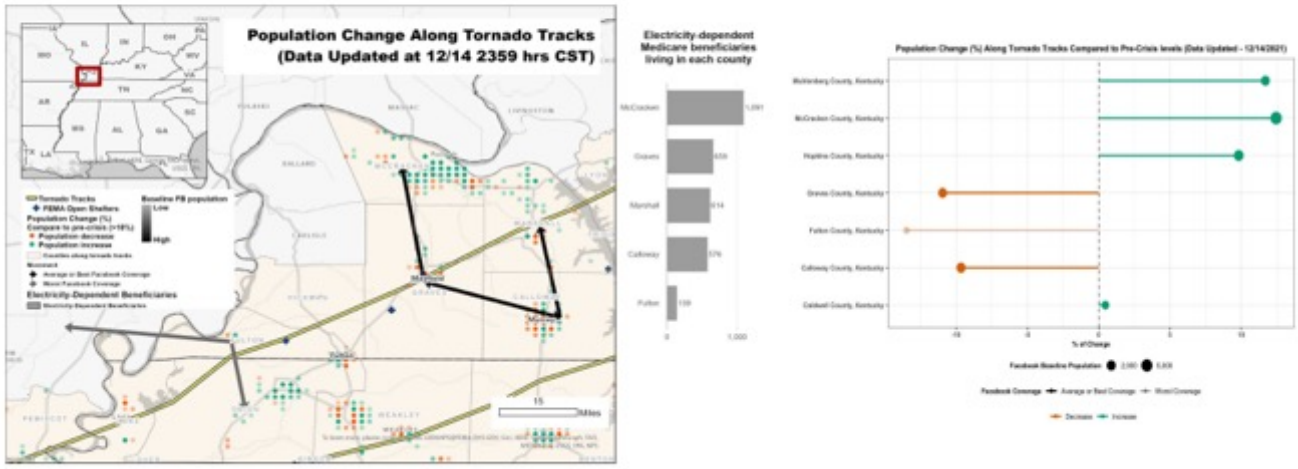


CrisisReady

Kentucky Tornado Situation Report

Central United States Tornado: Kentucky (14 December, 2021)

SUMMARY: On Friday, December 10, 2021, a historic, long-track tornado entered western Kentucky and moved northeast from 9:00 PM - 11:20 PM CST, producing widespread destruction in Graves, Caldwell, Fulton, Hopkins, Marshall, Muhlenberg, Taylor, and Warren counties. The visualizations below show the changes in population densities along the tornado's path in the aftermath of the disaster on Tuesday, December 14, 2021.

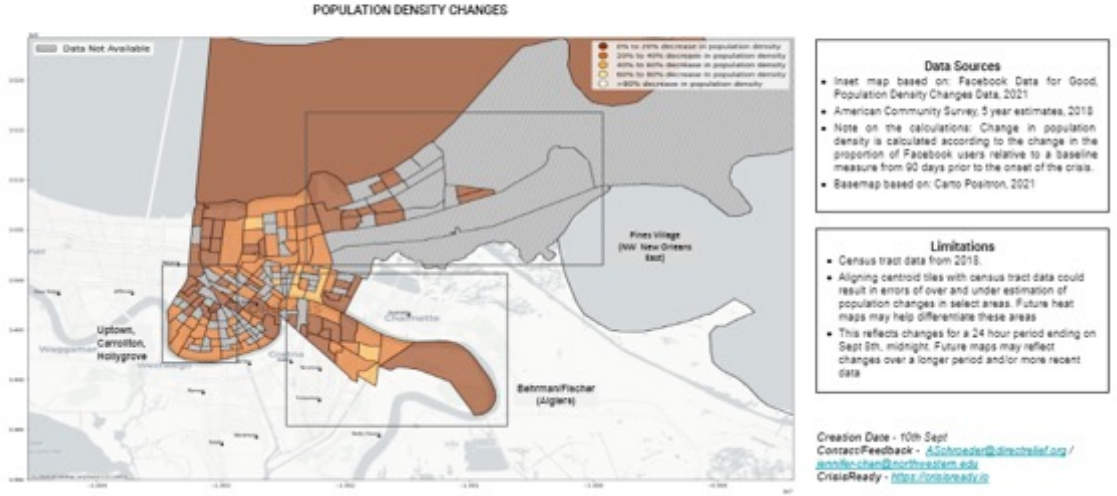


CrisisReady

Population Change Situation Report

Hurricane Ida: Orleans Parish (7 September - 8 September, 2021)

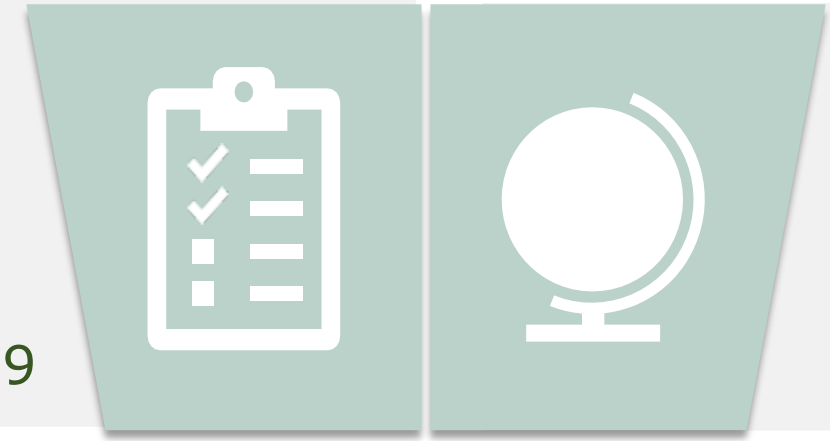
SUMMARY: Hurricane Ida, a Category 4 hurricane, made landfall early on Sunday, 29th August about 25 miles west of New Orleans with wind speeds close to 150 mph.



DirectRelief

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**

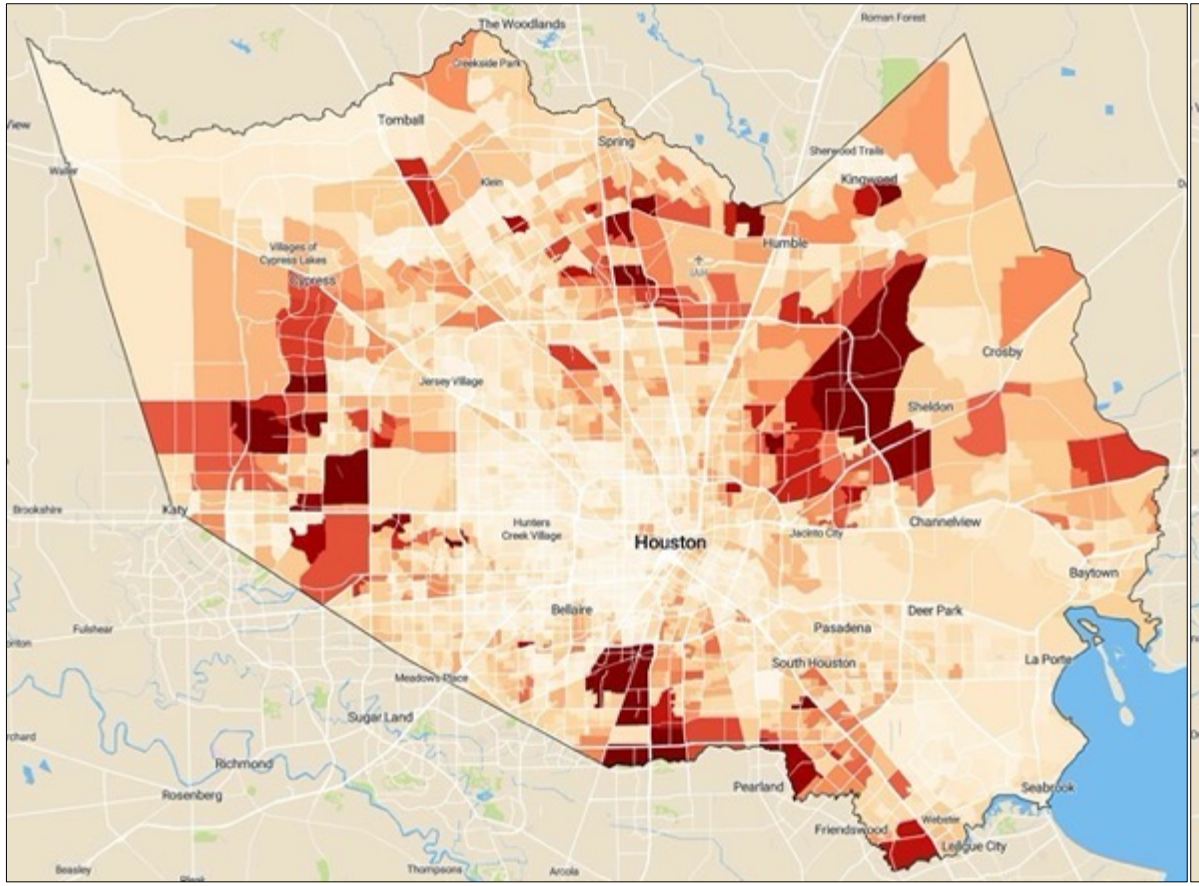
Use of Research and Mapping Data to Inform **Grant-making Strategy** and Inform **Policy Discussion**

TEXANS' VIEWS ON TH
COVID-19 PANDEMIC IN TH
BEXAR COUNTY AREA
Findings from the Episcopal Health Foundation
2020 Texas COVID-19 Survey
Prepared by:
BRIEF REPORT O
'ANS' VIEWS ON
VID-19 VACCIN
ECONOMIC IMPACTS OF
DISPARITIES IN TEXAS 2
Update in the Time of COVID
COVID19
in Texas
Statewide survey
on the impacts
of the pandemic
COVID-19
LATEST NEWS: New studies look at impact
Research

Mapping Areas of High Need and High Vulnerability

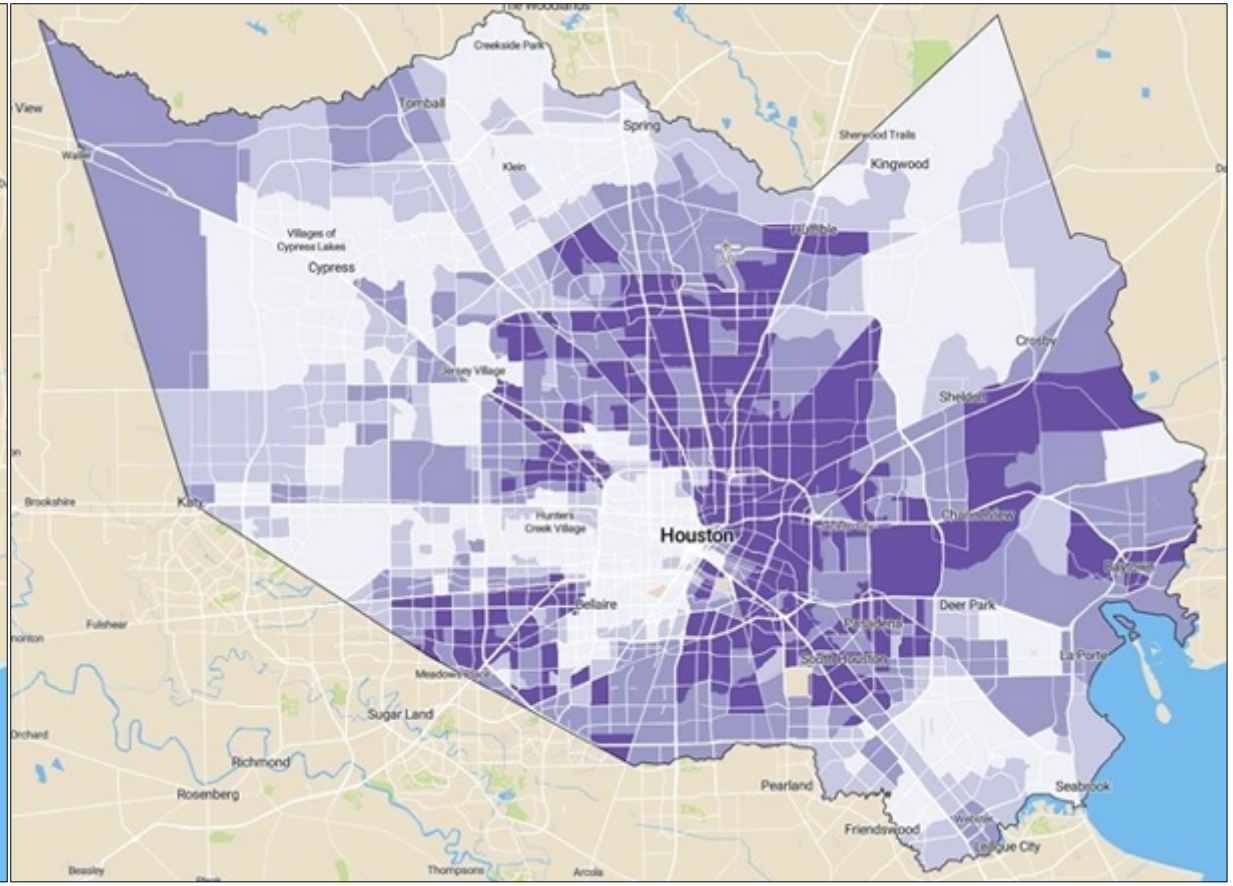
Map: Total Number of FEMA Applications by Census Block Group in Harris County

Darker red areas had the most number of FEMA applications

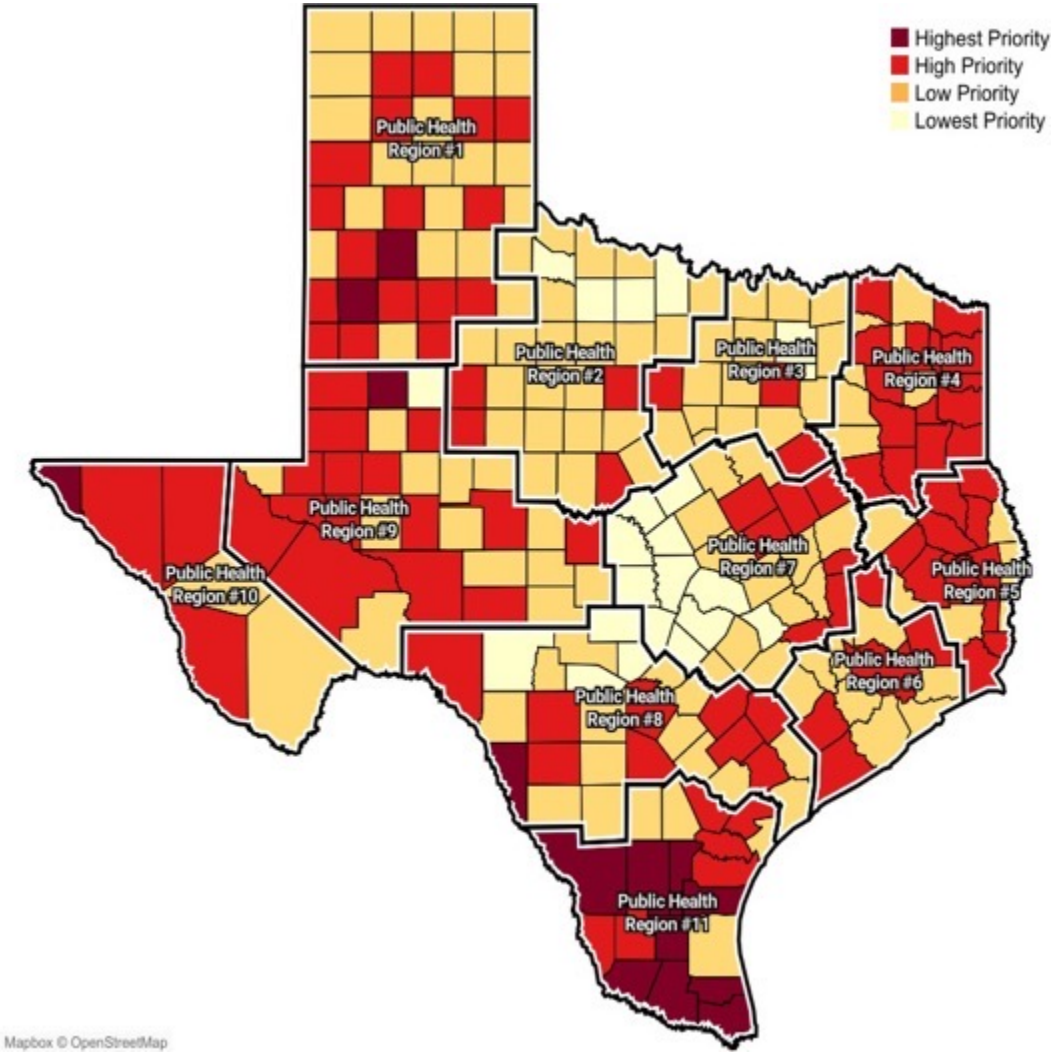


Map: Social Vulnerability by Census Tract in Harris County

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

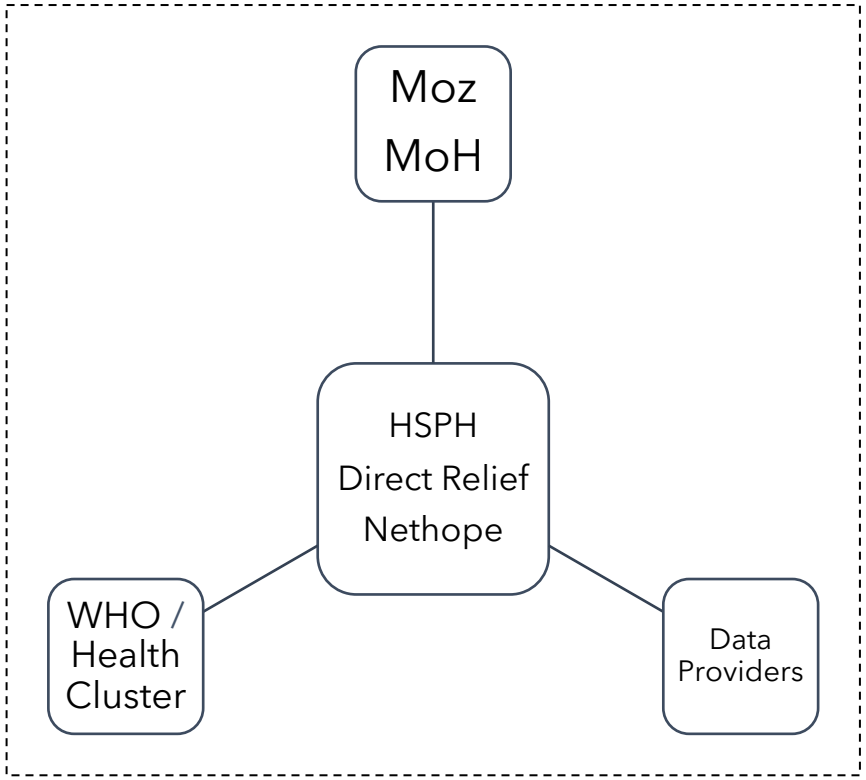
Flooding on the Yankton Sioux Reservation.
Photo by Jacqueline Keeler, appeared in Indian Country Today on October 1, 2019.

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 places 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.

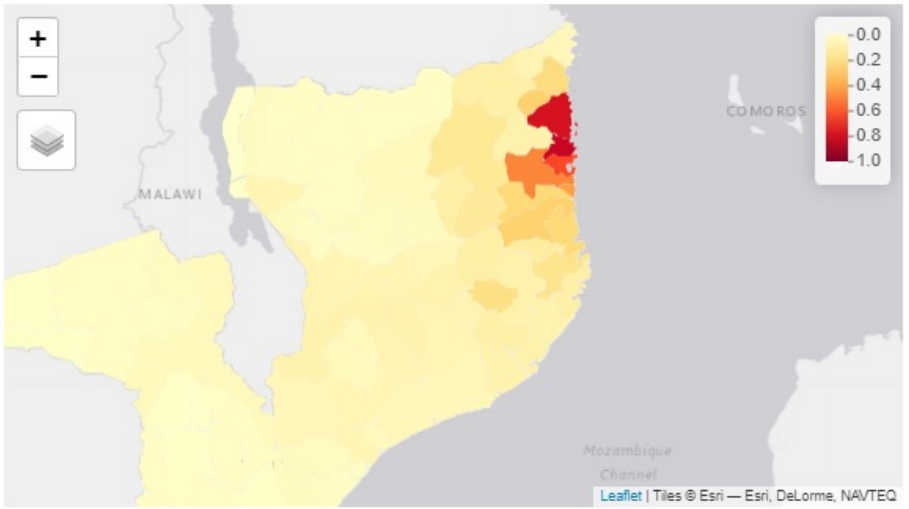
4) El Niño sensitivity index: This risk index is based on comparisons of cholera incidence between El Niño and non El Niño years, from Moore et al.

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.

Hover cursor over areas to see district name and population sizes.

Risk Index: Main: Gravity model + flood index

Ancuabe (cases in past week)	0
Balama (cases in past week)	0
Chiúre (cases in past week)	0
Macomia (cases in past week)	2
Mecufi (cases in past week)	10
Meluco (cases in past week)	0
Mocimboa da Praia (cases in past week)	0
Montepuez (cases in past week)	0
Mueda (cases in past week)	0
Muidumbe (cases in past week)	0
Namuno (cases in past week)	0
Nangade (cases in past week)	0
Palma (cases in past week)	0
Pemba-Metuge (cases in past week)	99
Quissanga (cases in past week)	0



District	Population
Nampula	1040691.66
Monapo	417314.05
Nacala Velha	379915.24
Namapa	344589.15
Memba	292041.06
Ancuabe	250173.26
Chiúre	171263.52
Mocimboa da Praia	113355.43
Muidumbe	86906.76
Quissanga	38763.74

DirectRelief

Tools

Ask questions

Go to a smaller grocery store

A few on my list:

[CDC's Social Vulnerability Index (SVI)]

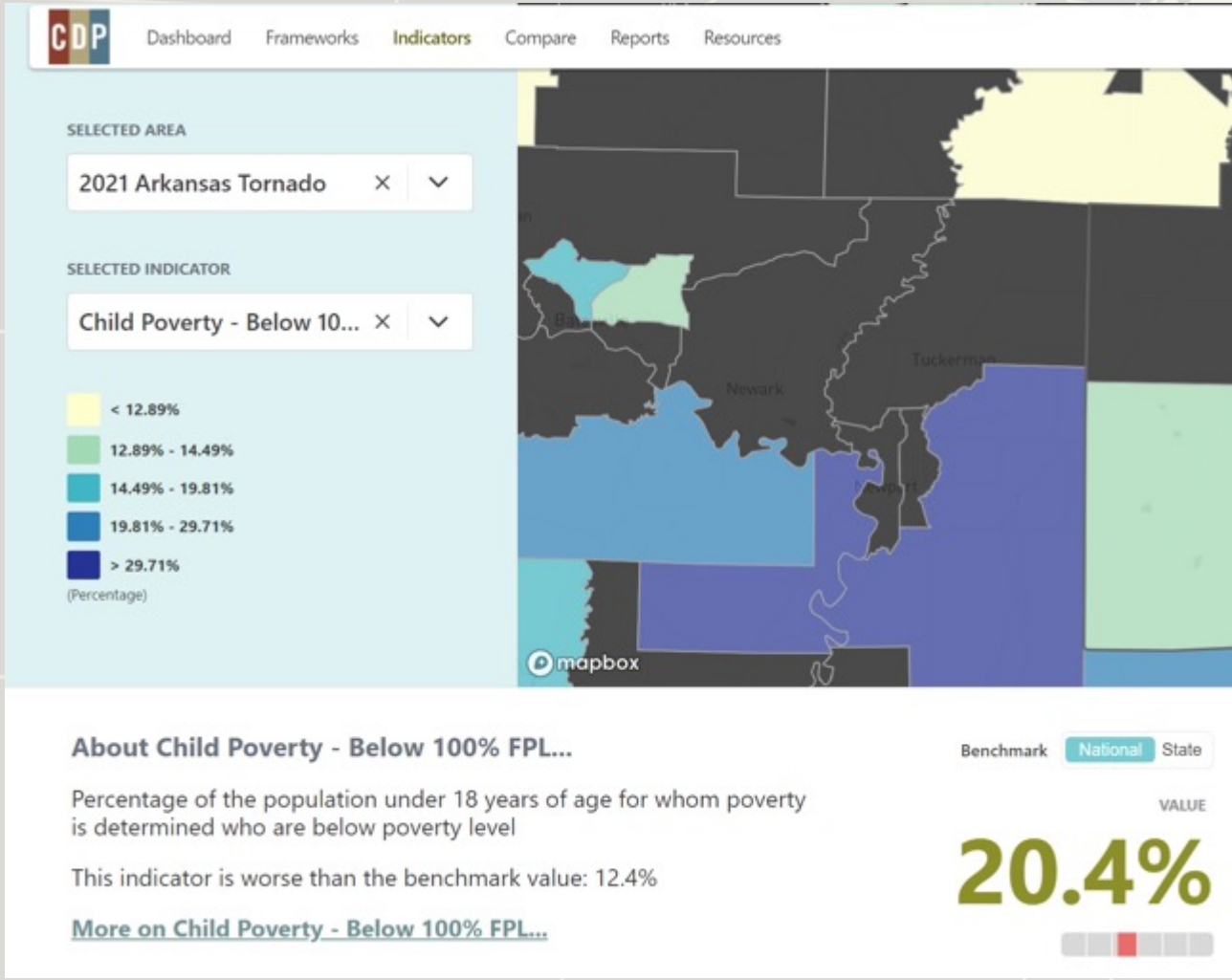
[Headwaters Economics]

[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

Submit questions using the Q & A box at the bottom of your screen.

#CDP4Recovery

Sally Ray

Director of Domestic Funds

Center for Disaster Philanthropy (CDP)

@SallyRay51

Cari Cullen

Director, Midwest Early Recovery Fund

CDP

@CariLoganCullen

Dr. Andrew Schroeder

Vice President of Research and Analysis

Direct Relief

@simulacrandrew

Dr. Shao-Chee Sim

Vice President for Research, Innovation and Evaluation

Episcopal Health Foundation

@shaochee_sim

Photo credit: Policía Nacional de los Colombianos via Flickr; CC BY-SA 2.0

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

Website

- Blogs, Issue Insights, Disaster Profiles, Weekly Disaster Updates

Webinars

Special Reports

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

CDP Staff

- Speaking engagements, Analyses, Opinion Pieces, Consulting Services

disasterphilanthropy.org

Photo Credit: Wayuu Taya Foundation

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

Thank You

For additional information, contact:
Tanya Gulliver-Garcia
Tanya.Gulliver-Garcia@disasterphilanthropy.org

CONNECT WITH US

DISASTERPHILANTHROPY.ORG

@FUNDS4DISASTER