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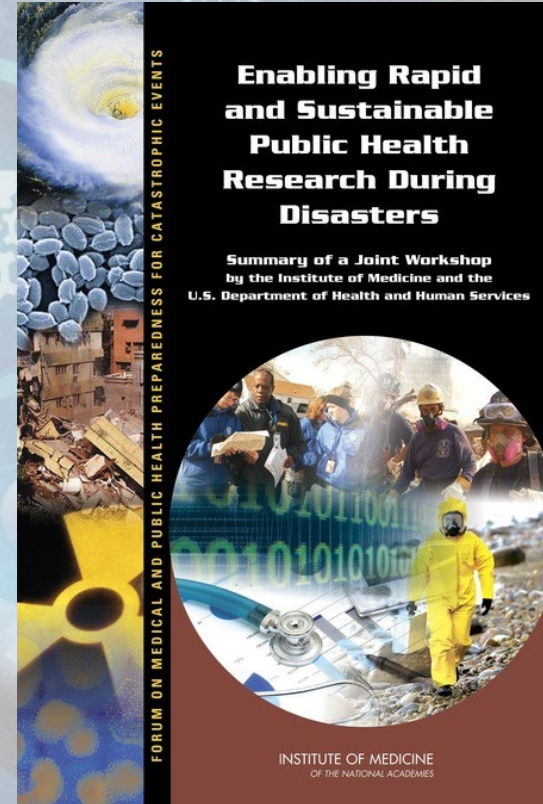
Symposium on Disaster Data Science Advancing Disaster Data Science

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Background

- As individuals, we want better disaster response, recovery, and support
- As researchers, we want more data to support impacted individuals
- As a community, we need to better collect and organization of existing data





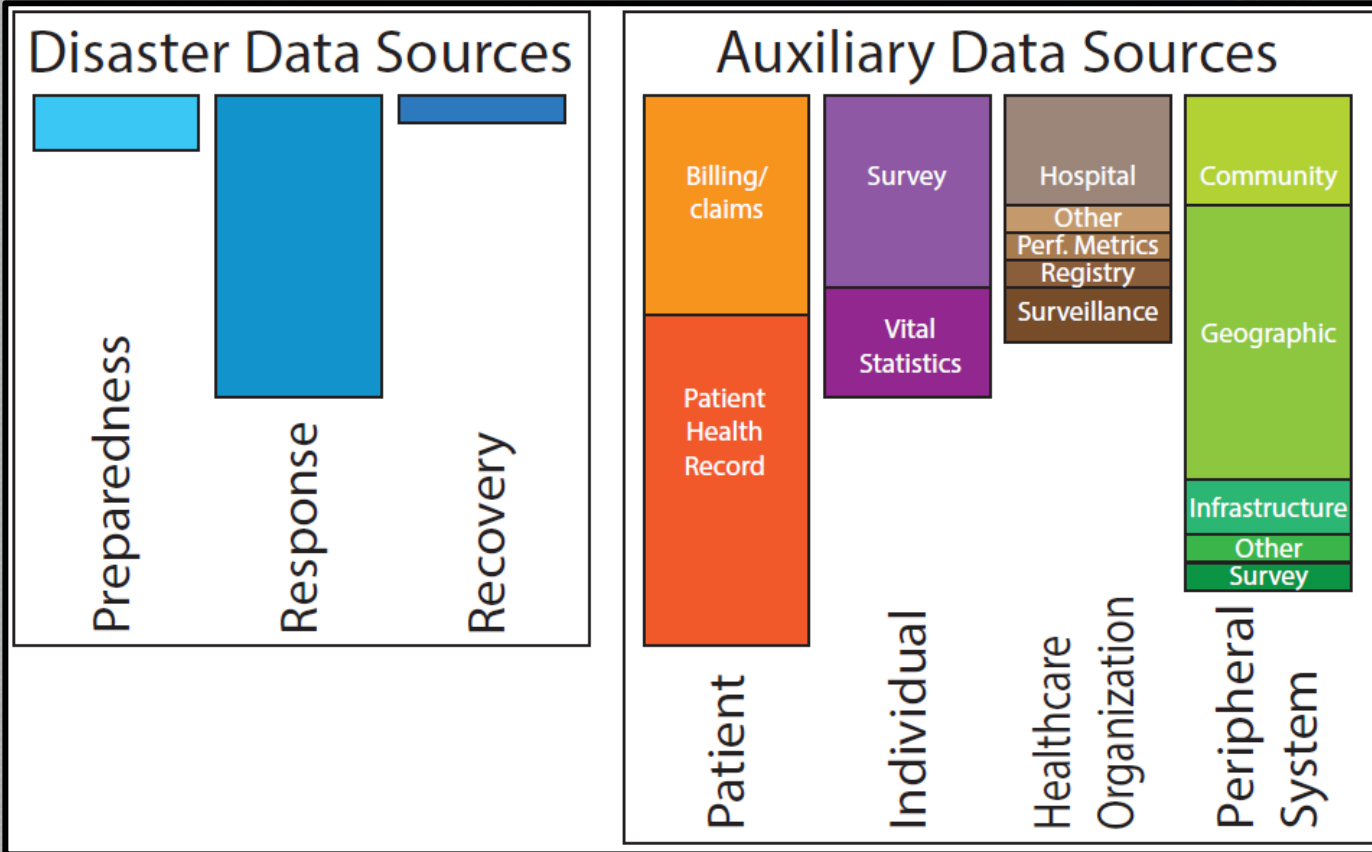
Compendium Demonstration

- The commissioned white paper:
 - Outlines the U.S. disaster data science landscape
 - Contains 73 data sources
 - Focuses on the intersection of disaster & health
 - Organizes data sources by categories & themes
 - Briefly describes each source
 - Indicates pre, during, & post-disaster utility
 - Guides researchers to the use of new data

Compendium Walkthrough



Data Source Categorization



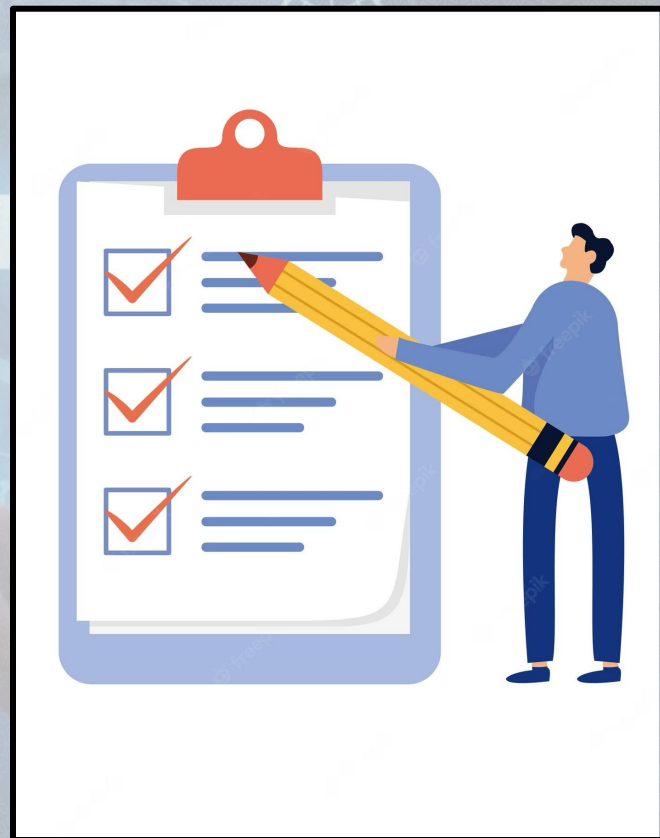


Data Source Categorization

Table 1: Disaster Science Data Sources

Theme	Category 1	Category 2	Name	Source	Source Type	Source Subtype	Pre-Disaster	During Disaster	Post-Disaster	Data Type
Disaster Data	Preparedness		NWS Past Weather	National Weather Service	Federal - Commerce	NOAA	Yes			Multiple
Disaster Data	Preparedness		Community resilience estimates from Census Bureau	Census Bureau	Federal - Commerce	Census	Yes			Quantitative
Disaster Data	Recovery		After-Action Report Repository	SGNL Solutions	Private				Yes	Qualitative
Disaster Data	Response		Disaster mission assignment costs	FEMA	Federal - DHS	FEMA		Yes		Financial
Disaster Data	Response		Public Assistance and Individuals and Households Program	FEMA	Federal - DHS	FEMA		Yes		Financial
Disaster Data	Response		Disaster Declaration Summary	FEMA	Federal - DHS	FEMA		Yes		Geographic
				United States Fire Administration						
Disaster Data	Response		National Fire Incident Reporting System (NFIRS)	Administration	Federal - DHS	FEMA		Yes		Multiple
Disaster Data	Response		Disaster Research Response Resources	NIEHS	Federal - HHS	NIH		Yes		Data collection tools
Disaster Data	Response		Public Health Emergency (PHE) Declarations Database	ASPR	Federal - HHS	ASPR		Yes		Geographic
Disaster Data	Response		Community Assessment for Public Health Emergency Response (CASPER)	CDC	Federal - HHS	CDC		Yes		Survey
Disaster Data	Response		The International Disaster Database (EM-DAT)	Centre for Research on the Epidemiology of Disasters	International			Yes		Multiple
Disaster Data	Response		National Shelter System	Red Cross	Non-pro fit			Yes		Multiple
Disaster Data	Response		Firefighter rescue survey	Firefighter Rescue Survey	Private			Yes		Survey
Disaster Data	Response		COVID contact tracing	Various	Various			Yes		Geographic
Auxiliary Data	Healthcare Organization	Hospital	HCUP Data Tools	AHRQ	Federal - HHS	AHRQ	Yes	Yes	Yes	Multiple
Auxiliary Data	Healthcare Organization	Hospital	HHS Protect	HHS Protect Public Data Hub	Federal - HHS		Yes	Yes	Yes	Multiple
Auxiliary Data	Healthcare Organization	Hospital	Pediatric Health Information System (PHIS) database	Children's Hospital Association	Non-pro fit		Yes	Yes	Yes	Multiple
Auxiliary Data	Healthcare Organization	Hospital	National Emergency Department Overcrowding Score (NEDOCS)	NEDOCS	Non-pro fit		Yes	Yes	Yes	Quantitative
Auxiliary Data	Healthcare Organization	Hospital	American Hospital Association (AHA) Annual Survey	Association	Private		Yes	Yes	Yes	Multiple
Auxiliary Data	Healthcare Organization	Other	HealthData.gov	HHS	Federal - HHS		Yes	Yes	Yes	Multiple

- 5x conclusions:
 1. There are very few disaster health data sources.
 2. Disaster data are less represented than auxiliary data.
 3. Disaster data sources are generally limited to one time period.
 4. Interoperability is lacking.
 5. Leapfrogging is a viable path forward.





Just a Nice Picture...

ANY
QUESTIONS?

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